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乐清彬炫电气有限公司
Yueqing Binxuan Electrical Co., Ltd.

传感器选型手册

Sensor Selection Manual

超声波传感器
Ultrasonic Sensor

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乐清彬炫电气有限公司
Yueqing Binxuan Electrical Co., Ltd.

乐清彬炫电气有限公司成立于2017年3月份，是一家集研发，生产，销售为一体的综合性企业，迄今为止已有7年制造经验，公司坐落于浙江省温州市，江西上饶等地拥有着占地面积2千多平方米的工厂，数百名员工。

彬炫电气专注于生产各类型超声波传感器，电感式接近开关，电容式接近开关，光电开关，霍尔接近开关等，产品广泛应用于机械工业的各类机床、各种生产机械设备和自动化流水线，尤其是高科技数控机床、机电一体化设备，同时在印刷、塑胶、石油、轻纺、化工、食品、冶金、烟草、电力、仪器等做自动化检测、计数、测速、信号传送、自动保护及限位和位置检测控制之用，对提供自控系统有巨大作用，深受广大客户的信赖和好评。

公司始终坚持“质量第一、客户至上”的原则。产品已经通过了多项认证，如CE认证，CCC认证，RoHS认证，FCC认证等。公司致力于为客户提供最优质的产品和服务，以满足客户的需求和不同的变化。公司的销售网络遍布多个国家和地区，覆盖了北美/中东/东欧/东亚等市场。公司将不断的提高技术水平和产品质量，开拓新的市场，为客户提供更加全面、优质的服务。

Yueqing Binxuan Electrical Co., Ltd., established in March 2017, is an integrated enterprise combining R&D, production, and sales. With seven years of manufacturing experience, the company is located in Wenzhou, Zhejiang Province, with factories covering over 2,000 square meters in Shangrao, Jiangxi, and other locations, employing hundreds of staff.

Binxuan Electrical specializes in producing various types of ultrasonic sensors, inductive proximity switches, capacitive proximity switches, photoelectric switches, Hall proximity switches, and more. These products are widely used in various types of machine tools in the mechanical industry, various production machinery, and automated assembly lines, particularly in high-tech CNC machine tools and mechatronic equipment. They are also utilized in printing, plastics, petroleum, light textile, chemical, food, metallurgy, tobacco, electric power, instrumentation, and other fields for automated detection, counting, speed measurement, signal transmission, automatic protection, and limit and position detection control. These products play a significant role in providing automatic control systems and are well-trusted and highly praised by customers.

The company adheres to the principle of "quality first, customer foremost." Our products have passed multiple certifications, including CE, CCC, RoHS, and FCC. We are committed to providing the highest quality products and services to meet the needs and varied demands of our customers. Our sales network spans multiple countries and regions, covering markets in North America, the Middle East, Eastern Europe, East Asia, and more. The company continually improves technical levels and product quality, explores new markets, and provides more comprehensive and superior services to customers.



超声波传感器型号

Ultrasonic Sensor Model Designations

UBX 100 GM18 70 D4 H4
 (1) (2) (3) (4) (5) (6)

1. 产品类别 Product Category

UBX:圆柱形漫反射超声波
 UBX: Cylindrical diffuse Reflection Ultrasound
 UCX:方形漫反射超声波
 UCX: Square diffuse Reflection Ultrasound

2. 检测距离 Detection distance

100:100cm

3. 外壳尺寸及材料 Housing size and material

GM:圆柱形金属外壳 (铜镀镍)
 GM: Cylindrical metal case (nickel-plated copper)
 GS:圆柱形塑料外壳 GS: Cylindrical plastic housing
 18:直径 18mm 18: Diameter 18mm

U9: 40*40*120 塑料外壳 U9: 40*40*120 plastic case
 L2: 40*40*40 塑料外壳 L2: 40*40*40 plastic case
 U30: 30*31*65 塑料外壳 U30: 30*31*65 plastic case
 F42: 34*80*80 塑料外壳 F42: 34*80*80 plastic case
 F54: 25*32*105 塑料外壳 F54: 25*32*105 plastic case
 F65: 30*64.4*125 塑料外壳 F65: 30*64.4*125 plastic case
 FP: 40*80*80 塑料外壳 FP: 40*80*80 plastic case
 FP1: 56*80*80 塑料外壳 FP1: 56*80*80 plastic case
 Q30: 30*65*88 塑料外壳 Q30: 30*65*88 plastic enclosure
 T18: 18*30*30 塑料外壳 T18: 18*30*30 plastic case
 T30: 30*46*48 塑料外壳 T30: 30*46*48 plastic case

4. 整体长度 Overall length

70:70mm

5. 输出形式

D4:1个NPN开关量输出(常开/常闭)
 D4: 1 NPN switching output (NO/NC)
 D5:1个PNP开关量输出(常开/常闭)
 D5: 1 PNP switching output (NO/NC)
 D7:2个NPN开关量输出(常开/常闭)
 D7: 2 NPN switching outputs (NO/NC)
 D6:2个PNP开关量输出(常开/常闭)
 D6: 2 PNP switching outputs (NO / NC)
 D01:2个NPN开关量输出(一开一闭)
 D01: 2 NPN switching outputs (one on, one off)
 D23:2个PNP开关量输出(一开一闭)
 D23: 2 PNP switching outputs (one open and one closed)
 DI:4- 20mA电流模拟量输出
 DI: 4- 20mA current analog output
 DU:0-10V电压模拟量输出
 DU: 0-10V voltage analog output
 DIU:4- 20mA电流模拟量输出+0-10V电压模拟量输出
 DIU: 4-20mA current analog output + 0-10V voltage analog output

6. 连接方式 Connection

H4:插头,M12, 4针 H4: Plug, M12, 4-pin
 H5:插头,M12, 5针 H5: Plug, M12, 5-pin
 S4:金属插头,M12, 4针 H4: Metal plugs, M12, 4-pin
 S5:金属插头,M12, 5针 H5: Metal plugs, M12, 5-pin
 M2: 2米线缆 M2: 2m cable
 M5: 5米线缆 M5: 5m cable

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Double sheet detection series



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GM30 series



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GM30 button series



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GM1840系列
GM1840 series



P05-06

485系列
485 series



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GM1840L系列
GM1840L series



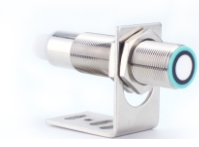
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232系列
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L2 series



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T18 series



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Q30系列
Q30 series



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T30系列
T30 series



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F65系列
F65 series



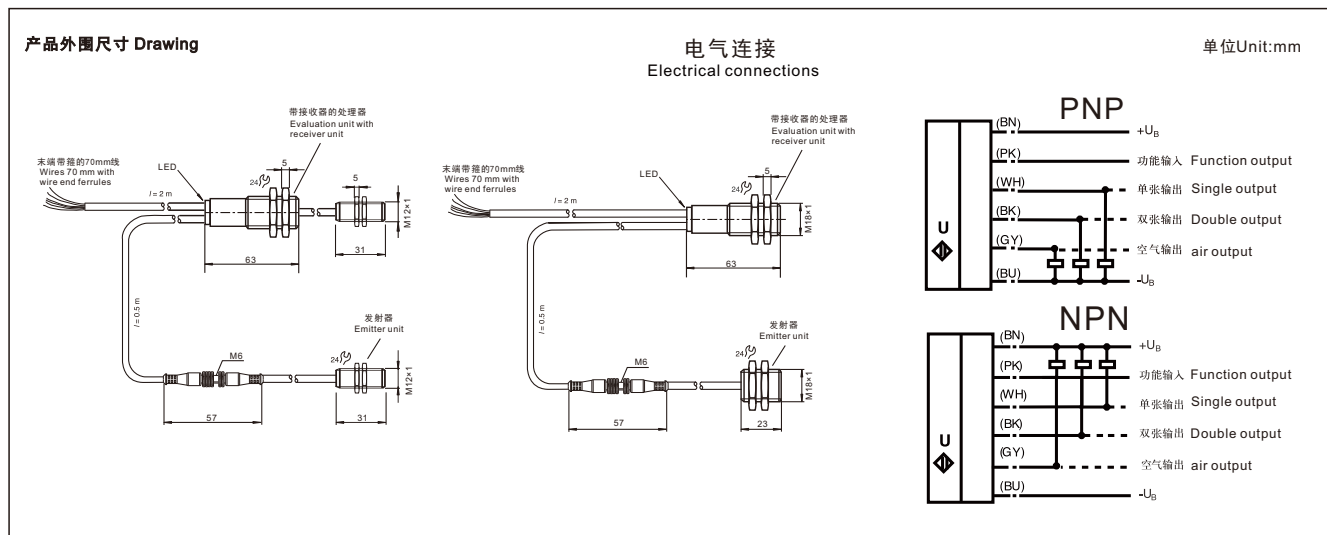
P99-104

双张传感器 Dual sensor



技术参数 Technical parameters

产品型号 Product model	UDCX-12GM-850-3E0	UDCX-12GMA-850-3E0	UDCX-18GM-255-3E0	UDCX-18GMA-255-3E0
	UDCX-12GM-850-3E1	UDCX-12GMA-850-3E1	UDCX-18GM-255-3E1	UDCX-18GMA-255-3E1
	UDCX-12GM-850-3E2	UDCX-12GMA-850-3E2	UDCX-18GM-255-3E2	UDCX-18GMA-255-3E2
	UDCX-12GM-850-3E3	UDCX-12GMA-850-3E3	UDCX-18GM-255-3E3	UDCX-18GMA-255-3E3
检测范围 Detection range	10...30mm 最佳值 Optimal value 20mm		20...60mm 最佳值 Optimal value 45mm	
换能器频率 Transducer frequency	约850KHz Approx.850KHz		约255KHz Approx.255KHz	
输入类型 Enter the type	功能输入 Functional inputs 0- : -U _B ... -U _B +1V 1-电平: +U _B -1 V... +U _B			
输出类型 Output type	3个开关量输出 3 switching outputs	3E0:NPN NO	3E1:NPN NC	3E2:PNP NO 3E3:PNP NC
额定工作电流 Rated operating current	3x100mA 短路保护/过载保护 3x100mA short-circuit protection/overload protection			
电源电压 Supply voltage	DC18-30V 纹波10% DC18-30V ripple 10%			
空载电流 No-load current	≤80mA			
响应延时 Response delay	约15ms(可调整) Approx. 15ms (adjustable)			
关断延时 Shutdown delay	约15ms(可调整) Approx. 15ms (adjustable)			
连接方式 Connection type	2mPVC电缆0.14mm ² 2m PVC Cable0.14mm ²			
LED绿灯 LED green light	指示:检测到单张 Indication: Sheet detected			
LED黄灯 LED yellow light	显示:无目标物(空气) Display: No target (air)			
LED红灯 LED red light	指示:检测到双张 Indication: Double sheet detected			
产品认证 Certificate	FC CE CCC RoHS EHL			



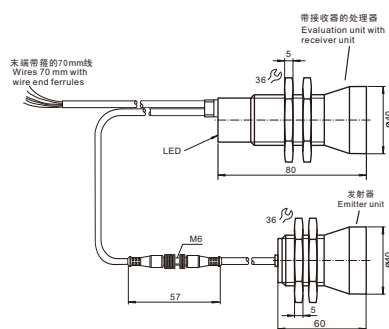
双张传感器 Dual sensor



技术参数 Technical parameters

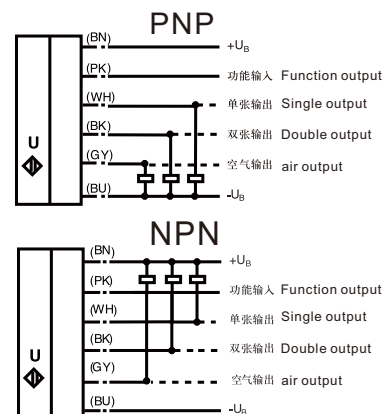
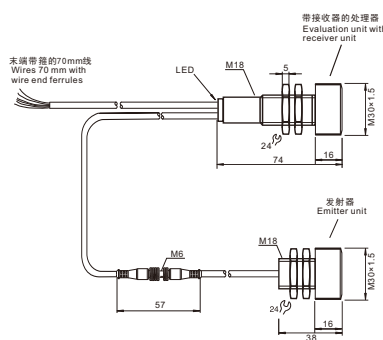
产品型号 Product model	UDCX-GM30-85-3E0	UDCX-GM18Z30-125-3E0
	UDCX-GM30-85-3E1	UDCX-GM18Z30-125-3E1
	UDCX-GM30-85-3E2	UDCX-GM18Z30-125-3E2
	UDCX-GM30-85-3E3	UDCX-GM18Z30-125-3E3
检测范围 Detection range	50...150mm 最佳值 80mm Optimal value	50...150mm 最佳值 80mm Optimal value
换能器频率 Transducer frequency	约85KHz Approx.85KHz	约125KHz Approx.125KHz
输入类型 Enter the type	功能输入 0- : -U _B ... -U _B +1V Functional inputs 1-电平: +U _B -1 V... +U _B	
输出类型 Output type	3个开关量输出 3 switching outputs	3E0:NPN NO 3E1:NPN NC 3E2:PNP NO 3E3:PNP NC
额定工作电流 Rated operating current	3x100mA 短路保护/过载保护 3x100mA short-circuit protection/overload protection	
电源电压 Supply voltage	18-30VDC 纹波10% 18-30VDC ripple 10%	
空载电流 No-load current	≤200mA	
响应延时 Response delay	约30ms(可调整) Approx. 30ms (adjustable)	
关断延时 Shutdown delay	约30ms(可调整) Approx. 30ms (adjustable)	
连接方式 Connection type	2mPVC电缆0.14mm ² 2m PVC Cable0.14mm ²	
LED绿灯 LED green light	指示: 检测到单张 Indication: Sheet detected	
LED黄灯 LED yellow light	显示: 无目标物(空气) Display: No target (air)	
LED红灯 LED red light	指示: 检测到双张 Indication: Double sheet detected	
产品认证 Certificate	FC CE CCC RoHS EHC	

产品外圈尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX12-GM12-D4-H4	UBX20-GM12-D4-H4	UBX40-GM12-D4-H4
	UBX12-GM12-D5-H4	UBX20-GM12-D5-H4	UBX40-GM12-D5-H4
检测范围 Detection range	40...120mm	40...200mm	50...400mm
盲区 Dead band	0...40mm	0...40mm	0...50mm
换能器频率 Transducer frequency	约850KHz Approx.850KHz	约400KHz Approx.400KHz	约310KHz Approx.310KHz
响应时间 Response time	约9ms Approx.9ms	约30ms Approx.30ms	约50ms Approx.50ms
开关频率 Switching frequency	≤52Hz	≤13Hz	≤8Hz
输出类型 Output type	D4: NPN NO/NC		
	D5: PNP NO/NC		
额定工作电流 Rated operating current	100mA		
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%		
重复精度 Repetitive accuracy	≤1%		
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line		
防护等级 Protection level	IP65		
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable		
LED黄灯 LED yellow light	开关状态指示 闪烁:程序功能检测到目标物 indication of the switching state flashing: program function object detected		
LED红灯 LED red light	常亮:出错 闪烁:程序功能,未检测到目标物 Solid: Error flashing: program function, object not detected		
产品认证 Certificate	FC CE CCC RoHS ENEC		

产品外围尺寸 Drawing

(扭矩 Torque) max. 10 Nm

电气连接 Electrical connections

单位Unit:mm

Standard symbols/connections:
标准符号/连接:
(version D4)

Standard symbols/connections:
标准符号/连接:
(version D5)

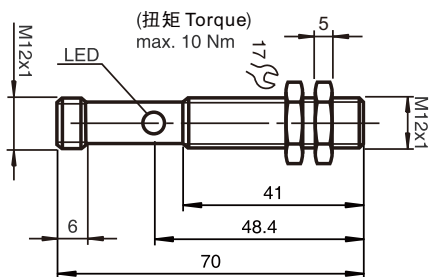
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX12-GM12-DI-H4	UBX20-GM12-DI-H4	UBX40-GM12-DI-H4
	UBX12-GM12-DU-H4	UBX20-GM12-DU-H4	UBX40-GM12-DU-H4
检测范围 Detection range	40...120mm	40...200mm	50...400mm
盲区 Dead band	0...40mm	0...40mm	0...50mm
换能器频率 Transducer frequency	约850KHz Approx.850KHz	约400KHz Approx.400KHz	约310KHz Approx.310KHz
响应时间 Response time	约27ms Approx.27ms	约30ms Approx.30ms	约50ms Approx.50ms
标准目标板 Standard target plates	10mm×10mm	100mm×100mm	100mm×100mm
输出类型 Output type	DI: 4...20mA		
	DU: 0-10V		
空载电流 No-load current	≤30mA		
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%		
重复精度 Repetitive accuracy	满量程值的±0.5% ±0.5% of full-scale value		
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line		
防护等级 Protection level	IP65		
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable		
LED黄灯 LED yellow light	开关状态指示 闪烁:程序功能检测到目标物 indication of the switching state flashing: program function object detected		
LED红灯 LED red light	常亮:出错 闪烁:程序功能,未检测到目标物 Solid: Error flashing: program function, object not detected		
产品认证 Certificate	FC CE CCC RoHS EAC		

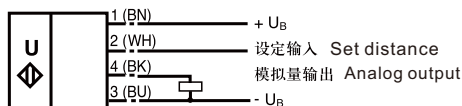
产品外形尺寸 Drawing



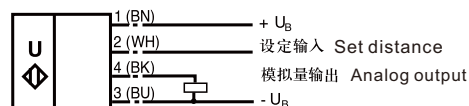
电气连接 Electrical connections

单位Unit:mm

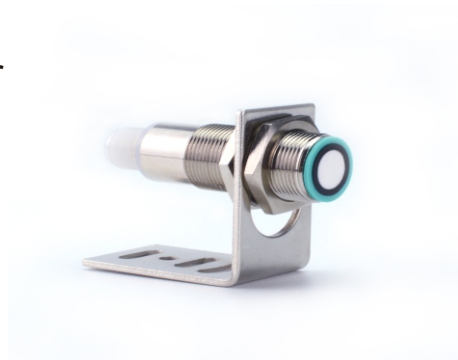
Standard symbols/connections:
标准符号/连接:
(version I)



Standard symbols/connections:
标准符号/连接:
(version U)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX30-GM1840-D4-H4	UBX80-GM1840-D4-H4	UBX30-GM1840-D4-S4	UBX80-GM1840-D4-S4
	UBX30-GM1840-D5-H4	UBX80-GM1840-D5-H4	UBX30-GM1840-D5-S4	UBX80-GM1840-D5-S4
检测范围 Detection range	50...300mm	50...800mm	50...300mm	50...800mm
盲区 Dead band	0...50mm	0...50mm	0...50mm	0...50mm
换能器频率 Transducer frequency	约390KHz Approx.390KHz	约225KHz Approx.225KHz	约390KHz Approx.390KHz	约225KHz Approx.225KHz
响应时间 Response time	约50ms Approx.50ms	约100ms Approx.100ms	约50ms Approx.50ms	约100ms Approx.100ms
开关频率 Switching frequency	≤13Hz	≤4Hz	≤13Hz	≤4Hz
输出类型 Output type	D4: NPN NO/NC			
	D5: PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外圈尺寸 Drawing

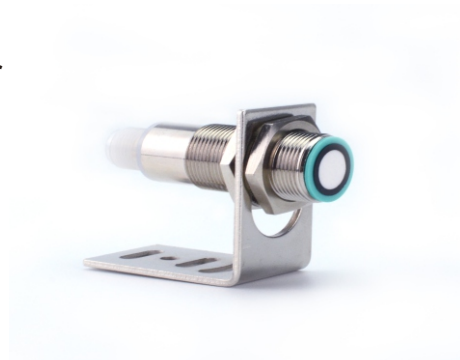
电气连接 Electrical connections

单位Unit:mm

Standard symbols/connections:
标准符号/连接:
(version D4)

Standard symbols/connections:
标准符号/连接:
(version D5)

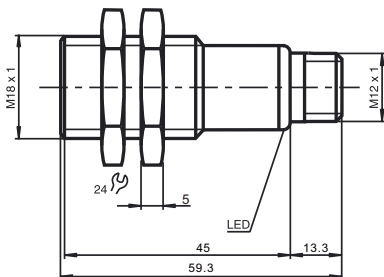
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX30-GM1840-DI-H4	UBX80-GM1840-DI-H4	UBX30-GM1840-DI-S4	UBX80-GM1840-DI-S4
	UBX30-GM1840-DU-H4	UBX80-GM1840-DU-H4	UBX30-GM1840-DU-S4	UBX80-GM1840-DU-S4
检测范围 Detection range	50...300mm	50...800mm	50...300mm	50...800mm
盲区 Dead band	0...50mm	0...50mm	0...50mm	0...50mm
换能器频率 Transducer frequency	约390KHz Approx.390KHz	约225KHz Approx.225KHz	约390KHz Approx.390KHz	约225KHz Approx.225KHz
响应时间 Response time	约50ms Approx.50ms	约100ms Approx.100ms	约50ms Approx.50ms	约100ms Approx.100ms
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA			
	DU: 0-10V			
空载电流 No-load current	≤20mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.5% ±0.5% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

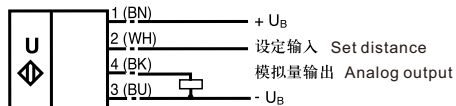
产品外圈尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

Standard symbols/connections:
标准符号/连接:
(version I)



Standard symbols/connections:
标准符号/连接:
(version U)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX30-GM1840L-D4-H4	UBX80-GM1840L-D4-H4	UBX30-GM1840L-D4-S4	UBX80-GM1840L-D4-S4
	UBX30-GM1840L-D5-H4	UBX80-GM1840L-D5-H4	UBX30-GM1840L-D5-S4	UBX80-GM1840L-D5-S4
检测范围 Detection range	50...300mm	50...800mm	50...300mm	50...800mm
盲区 Dead band	0...50mm	0...50mm	0...50mm	0...50mm
换能器频率 Transducer frequency	约390KHz Approx.390KHz	约225KHz Approx.225KHz	约390KHz Approx.390KHz	约225KHz Approx.225KHz
响应时间 Response time	约50ms Approx.50ms	约100ms Approx.100ms	约50ms Approx.50ms	约100ms Approx.100ms
开关频率 Switching frequency	≤13Hz	≤4Hz	≤13Hz	≤4Hz
输出类型 Output type	D4: NPN NO/NC			
	D5: PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

Standard symbols/connections:
标准符号/连接:
(version D4)

Standard symbols/connections:
标准符号/连接:
(version D5)

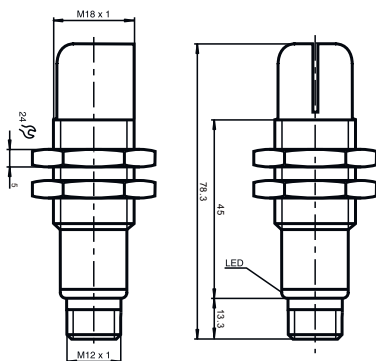
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX30-GM1840L-DI-H4	UBX80-GM1840L-DI-H4	UBX30-GM1840L-DI-S4	UBX80-GM1840L-DI-S4
	UBX30-GM1840L-DU-H4	UBX80-GM1840L-DU-H4	UBX30-GM1840L-DU-S4	UBX80-GM1840L-DU-S4
检测范围 Detection range	50...300mm	50...800mm	50...300mm	50...800mm
盲区 Dead band	0...50mm	0...50mm	0...50mm	0...50mm
换能器频率 Transducer frequency	约390KHz Approx.390KHz	约225KHz Approx.225KHz	约390KHz Approx.390KHz	约225KHz Approx.225KHz
响应时间 Response time	约50ms Approx.50ms	约100ms Approx.100ms	约50ms Approx.50ms	约100ms Approx.100ms
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA			
	DU: 0-10V			
空载电流 No-load current	≤20mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.5% ±0.5% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

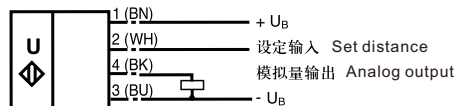


电气连接

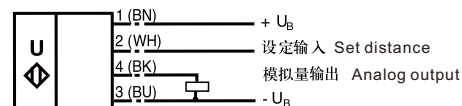
Electrical connections

单位Unit:mm

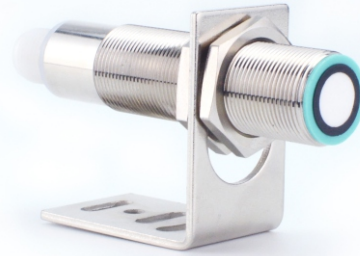
Standard symbols/connections:
标准符号/连接:
(version I)



Standard symbols/connections:
标准符号/连接:
(version U)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-D4-H5	UBX50-GM1875-D6-H5	UBX100-GM1875-D4-H5	UBX100-GM1875-D6-H5
	UBX50-GM1875-D5-H5	UBX50-GM1875-D7-H5	UBX100-GM1875-D5-H5	UBX100-GM1875-D7-H5
	UBX50-GM1875-D45-H5		UBX100-GM1875-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤8Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

武平外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4)

1. (BN) + U_B
4. (BK) 开关量输出 Switching output
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
3. (BU) - U_B

标准符号/连接:
(version D6)

1. (BN) + U_B
5. (GY) 设定输入 Set distance
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

标准符号/连接:
(version D5)

1. (BN) + U_B
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
4. (BK) 开关量输出 Switching output
3. (BU) - U_B

标准符号/连接:
(version D7)

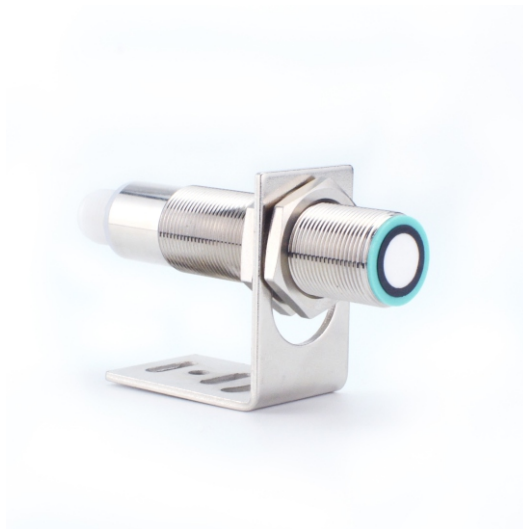
1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
5. (GY) 设定输入 Set distance
3. (BU) - U_B

标准符号/连接:
(version D45)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
5. (GY) 设定输入 Set distance
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

超声波传感器

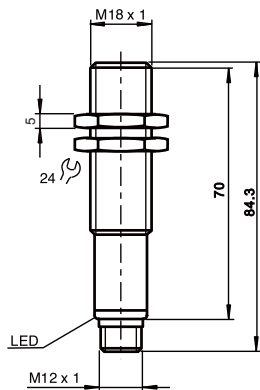
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-DI-H5	UBX50-GM1875-DF-H5	UBX100-GM1875-DI-H5	UBX100-GM1875-DF-H5
	UBX50-GM1875-DU-H5	UBX50-GM1875-DJ-H5	UBX100-GM1875-DU-H5	UBX100-GM1875-DJ-H5
	UBX50-GM1875-DIU-H5		UBX100-GM1875-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	I: ≤45mA U: ≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的 ±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



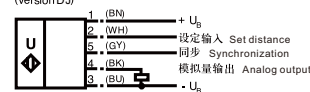
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(version DIU)



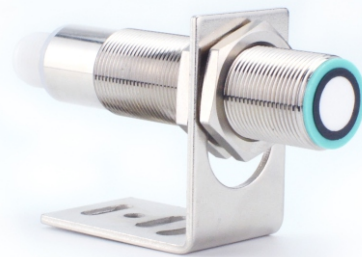
标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-DI4-H5	UBX50-GM1875-DI5-H5	UBX100-GM1875-DI4-H5	UBX100-GM1875-DI5-H5
	UBX50-GM1875-DU4-H5	UBX50-GM1875-DU5-H5	UBX100-GM1875-DU4-H5	UBX100-GM1875-DU5-H5
检测范围 Detection range	50...500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	I:≤45mA U:≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D14)

标准符号/连接:
(version D15)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

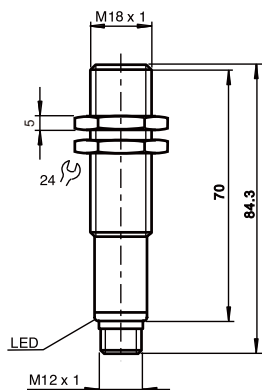
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-D4-S5	UBX50-GM1875-D6-S5	UBX100-GM1875-D4-S5	UBX100-GM1875-D6-S5
	UBX50-GM1875-D5-S5	UBX50-GM1875-D7-S5	UBX100-GM1875-D5-S5	UBX100-GM1875-D7-S5
	UBX50-GM1875-D45-S5		UBX100-GM1875-D45-S5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤8Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外圈尺寸 Drawing

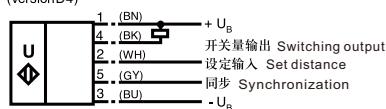


电气连接

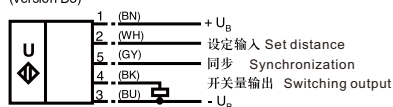
Electrical connections

单位Unit:mm

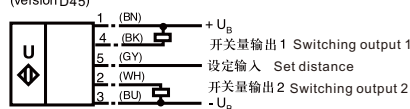
标准符号/连接:
(version D4)



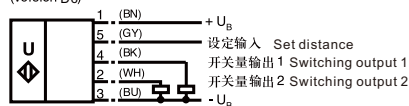
标准符号/连接:
(version D5)



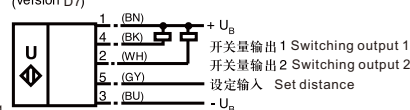
标准符号/连接:
(version D45)



标准符号/连接:
(version D6)



标准符号/连接:
(version D7)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-DI-S5	UBX50-GM1875-DF-S5	UBX100-GM1875-DI-S5	UBX100-GM1875-DF-S5
	UBX50-GM1875-DU-S5	UBX50-GM1875-DJ-S5	UBX100-GM1875-DU-S5	UBX100-GM1875-DJ-S5
	UBX50-GM1875-DIU-S5		UBX100-GM1875-DIU-S5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	I: ≤45mA U: ≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的 ±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DU)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DF)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DJ)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DIU)

1. (BN)	+ U _B
5. (GY)	设定输入 Set distance
4. (BK)	模拟量输出 Analog output
2. (WH)	模拟量输出 Analog output
3. (BU)	- U _B

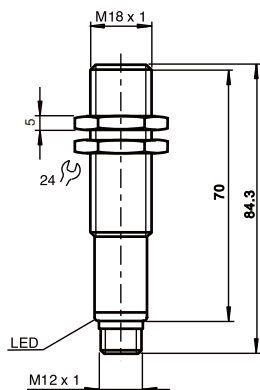
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875-DI4-H5	UBX50-GM1875-DI5-H5	UBX100-GM1875-DI4-H5	UBX100-GM1875-DI5-H5
	UBX50-GM1875-DU4-H5	UBX50-GM1875-DU5-H5	UBX100-GM1875-DU4-H5	UBX100-GM1875-DU5-H5
检测范围 Detection range	50...500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	I:≤45mA U:≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protetion level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外圈尺寸 Drawing

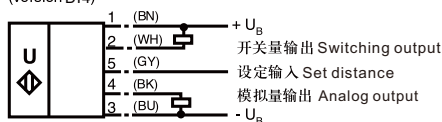


电气连接

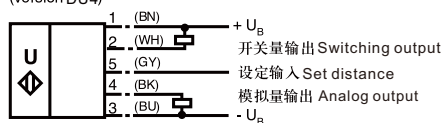
Electrical connections

单位Unit:mm

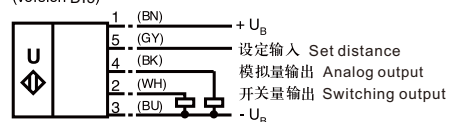
标准符号/连接:
(version DI4)



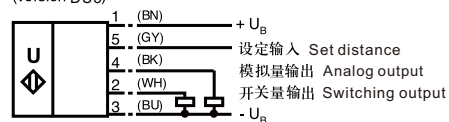
标准符号/连接:
(version DU4)



标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-D4-H5	UBX50-GM1875L-D6-H5	UBX100-GM1875L-D4-H5	UBX100-GM1875L-D6-H5
	UBX50-GM1875L-D5-H5	UBX50-GM1875L-D7-H5	UBX100-GM1875L-D5-H5	UBX100-GM1875L-D7-H5
	UBX50-GM1875L-D45-H5		UBX100-GM1875L-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤8Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4)

1. (BN) + U_B
4. (BK) 开关量输出 Switching output
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
3. (BU) - U_B

标准符号/连接:
(version D6)

1. (BN) + U_B
5. (GY) 设定输入 Set distance
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

标准符号/连接:
(version D5)

1. (BN) + U_B
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
4. (BK) 开关量输出 Switching output
3. (BU) - U_B

标准符号/连接:
(version D7)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
5. (GY) 设定输入 Set distance
3. (BU) - U_B

标准符号/连接:
(version D45)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
5. (GY) 设定输入 Set distance
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

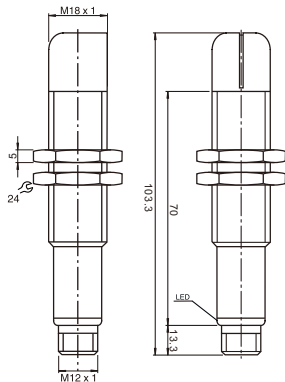
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-DI-H5	UBX50-GM1875L-DF-H5	UBX100-GM1875L-DI-H5	UBX100-GM1875L-DF-H5
	UBX50-GM1875L-DU-H5	UBX50-GM1875L-DJ-H5	UBX100-GM1875L-DU-H5	UBX100-GM1875L-DJ-H5
	UBX50-GM1875L-DIU-H5		UBX100-GM1875L-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	I: ≤45mA U: ≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的 ±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



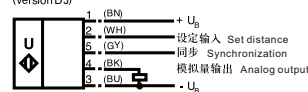
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-DI4-H5	UBX50-GM1875L-DI5-H5	UBX100-GM1875L-DI4-H5	UBX100-GM1875L-DI5-H5
	UBX50-GM1875L-DU4-H5	UBX50-GM1875L-DU5-H5	UBX100-GM1875L-DU4-H5	UBX100-GM1875L-DU5-H5
检测范围 Detection range	50...500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	I:≤45mA U:≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

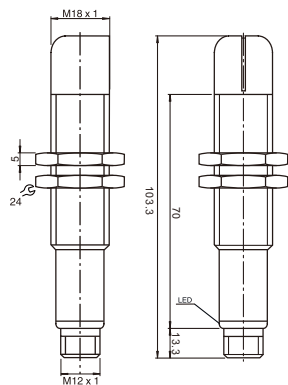
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-D4-S5	UBX50-GM1875L-D6-S5	UBX100-GM1875L-D4-S5	UBX100-GM1875L-D6-S5
	UBX50-GM1875L-D5-S5	UBX50-GM1875L-D7-S5	UBX100-GM1875L-D5-S5	UBX100-GM1875L-D7-S5
	UBX50-GM1875L-D45-S5		UBX100-GM1875L-D45-S5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤8Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

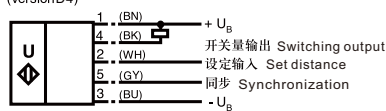
产品外形尺寸 Drawing



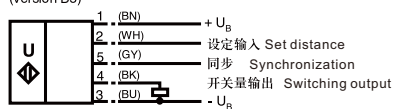
电气连接 Electrical connections

单位Unit:mm

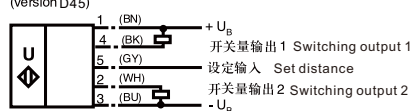
标准符号/连接:
(version D4)



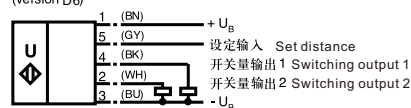
标准符号/连接:
(version D5)



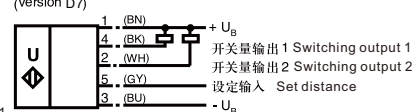
标准符号/连接:
(version D45)



标准符号/连接:
(version D6)



标准符号/连接:
(version D7)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-DI-S5	UBX50-GM1875L-DF-S5	UBX100-GM1875L-DI-S5	UBX100-GM1875L-DF-S5
	UBX50-GM1875L-DU-S5	UBX50-GM1875L-DJ-S5	UBX100-GM1875L-DU-S5	UBX100-GM1875L-DJ-S5
	UBX50-GM1875L-DIU-S5		UBX100-GM1875L-DIU-S5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	I: ≤45mA U: ≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的 ±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

标准符号/连接: (version DU)

标准符号/连接: (version DIU)

标准符号/连接: (version DF)

标准符号/连接: (version DJ)

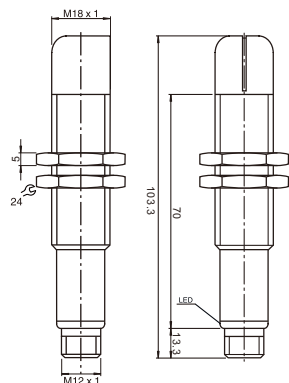
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM1875L-DI4-S5	UBX50-GM1875L-DI5-S5	UBX100-GM1875L-DI4-S5	UBX100-GM1875L-DI5-S5
	UBX50-GM1875L-DU4-S5	UBX50-GM1875L-DU5-S5	UBX100-GM1875L-DU4-S5	UBX100-GM1875L-DU5-S5
检测范围 Detection range	50...500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	I:≤45mA U:≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

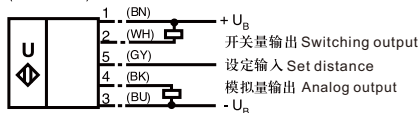
产品外形尺寸 Drawing



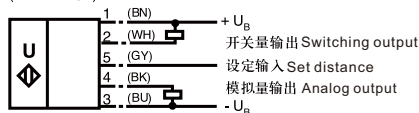
电气连接 Electrical connections

单位Unit:mm

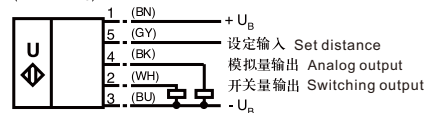
标准符号/连接:
(version DI4)



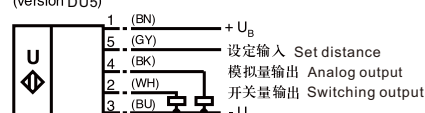
标准符号/连接:
(version DU4)



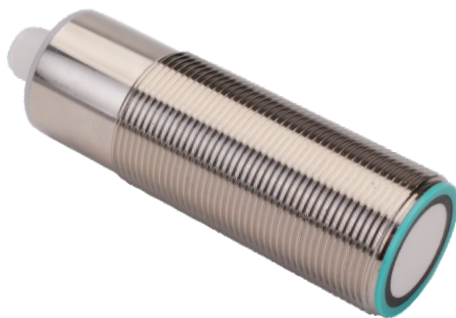
标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM30-D4-H5	UBX50-GM30-D6-H5	UBX200-GM30-D4-H5	UBX200-GM30-D6-H5
	UBX50-GM30-D5-H5	UBX50-GM30-D7-H5	UBX200-GM30-D5-H5	UBX200-GM30-D7-H5
	UBX50-GM30-D45-H5		UBX200-GM30-D45-H5	
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
开关频率 Switching frequency	≤10Hz		≤3.3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤ 0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4)

1. (BN) + U_B
4. (BK) 开关量输出 Switching output
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
3. (BU) - U_B

标准符号/连接:
(version D6)

1. (BN) + U_B
5. (GY) 设定输入 Set distance
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

标准符号/连接:
(version D5)

1. (BN) + U_B
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
4. (BK) 开关量输出 Switching output
3. (BU) - U_B

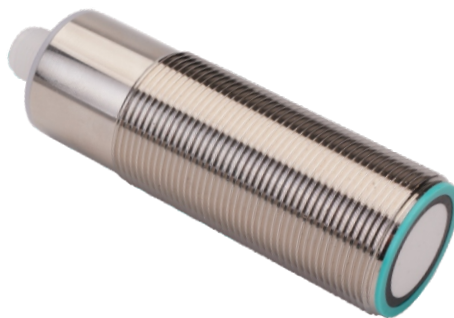
标准符号/连接:
(version D7)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
5. (GY) 设定输入 Set distance
3. (BU) - U_B

标准符号/连接:
(version D45)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
5. (GY) 设定输入 Set distance
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

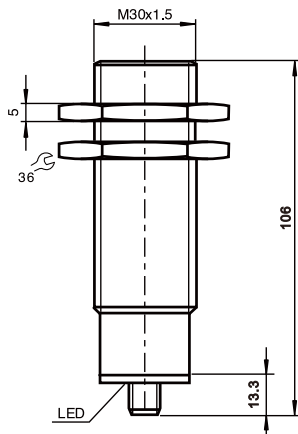
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM30-DI-H5	UBX50-GM30-DF-H5	UBX200-GM30-DI-H5	UBX200-GM30-DF-H5
	UBX50-GM30-DU-H5	UBX50-GM30-DJ-H5	UBX200-GM30-DU-H5	UBX200-GM30-DJ-H5
	UBX50-GM30-DIU-H5		UBX200-GM30-DIU-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate				

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

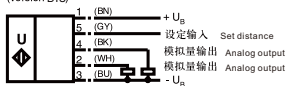
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(version DI)



标准符号/连接:
(version DU)



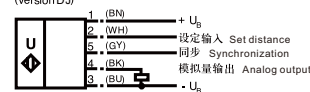
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(version DIU)



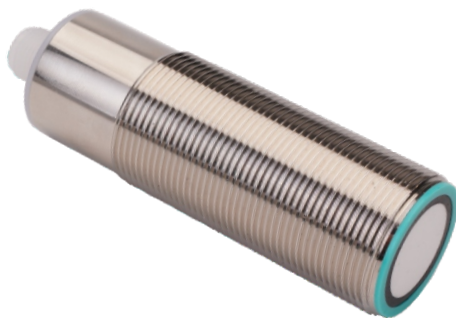
标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GM30-DI4-H5	UBX50-GM30-DI5-H5	UBX200-GM30-DI4-H5	UBX200-GM30-DI5-H5
	UBX50-GM30-DU4-H5	UBX50-GM30-DU5-H5	UBX200-GM30-DU4-H5	UBX200-GM30-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D14)

标准符号/连接:
(version D15)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

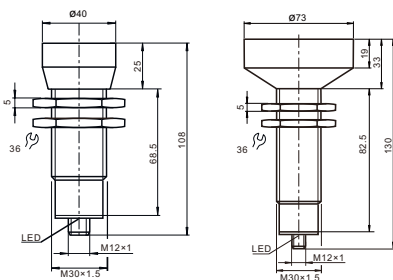
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GM30-D4-H5	UBX400-GM30-D6-H5	UBX600-GM30-D4-H5	UBX600-GM30-D6-H5
	UBX400-GM30-D5-H5	UBX400-GM30-D7-H5	UBX600-GM30-D5-H5	UBX600-GM30-D7-H5
	UBX400-GM30-D45-H5		UBX600-GM30-D45-H5	
检测范围 Detection range	200..4000mm		400...6000mm	
盲区 Dead band	0...200mm		0..400mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz		约65KHz Approx.65KHz	
响应时间 Response time	约325ms Approx.325ms		约650ms Approx.650ms	
开关频率 Switching frequency	≤1.5Hz		≤0.8Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate	FC CE CCC RoHS ERI			

产品外圈尺寸 Drawing

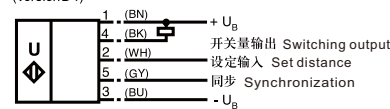


电气连接

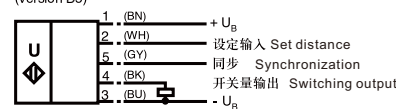
Electrical connections

单位Unit:mm

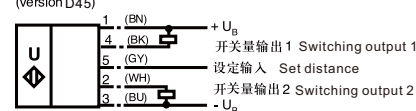
标准符号/连接:
(version D4)



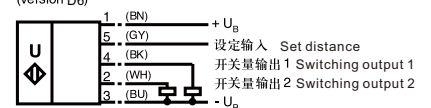
标准符号/连接:
(version D5)



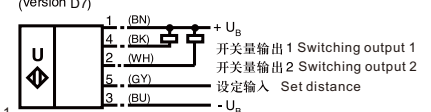
标准符号/连接:
(version D45)



标准符号/连接:
(version D6)



标准符号/连接:
(version D7)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GM30-DI-H5	UBX400-GM30-DF-H5	UBX600-GM30-DI-H5	UBX600-GM30-DF-H5
	UBX400-GM30-DU-H5	UBX400-GM30-DJ-H5	UBX600-GM30-DU-H5	UBX600-GM30-DJ-H5
	UBX400-GM30-DIU-H5		UBX600-GM30-DIU-H5	
检测范围 Detection range	200..4000mm		400...6000mm	
盲区 Dead band	0...200mm		0...400mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz		约65KHz Approx.65KHz	
响应时间 Response time	约325ms Approx.325ms		约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	≤60mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

标准符号/连接: (version DU)

标准符号/连接: (version DF)

标准符号/连接: (version DJ)

标准符号/连接: (version DIU)

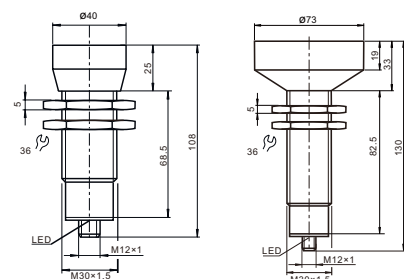
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GM30-DI4-H5	UBX400-GM30-DI5-H5	UBX600-GM30-DI4-H5	UBX600-GM30-DI5-H5
	UBX400-GM30-DU4-H5	UBX400-GM30-DU5-H5	UBX600-GM30-DU4-H5	UBX600-GM30-DU5-H5
检测范围 Detection range	200...4000mm		400...6000mm	
盲区 Dead band	0...200mm		0...400mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz		约65KHz Approx.65KHz	
响应时间 Response time	约325ms Approx.325ms		约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤60mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protetion level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 监控系统 闪烁: 程序功能 solid: monitoring system flashing: program function			
LED黄灯 LED yellow light	开关状态指示 闪烁: 程序功能检测到物体 indication of the switching state flashing: program function object detected			
LED红灯 LED red light	闪烁 正常模式: 错误 程序功能 未检测到物体 永久: 程序模式, 不确定的物体 flashing: normal mode: error Program function: no object detected permanently: Program mode, object uncertain			
产品认证 Certificate	FC CE CCC RoHS EAC			

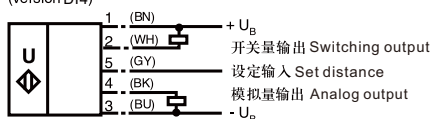
产品外形尺寸 Drawing



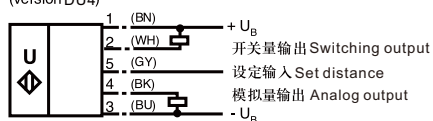
电气连接 Electrical connections

单位Unit:mm

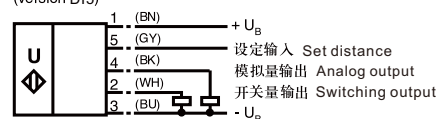
标准符号/连接:
(version DI4)



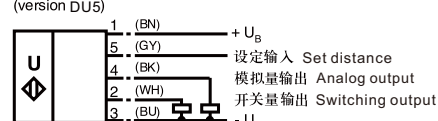
标准符号/连接:
(version DU4)



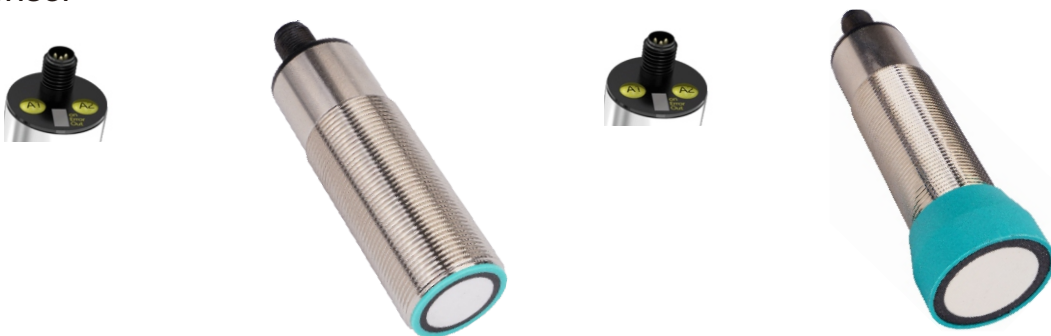
标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-B4-H5	UBX200-GM30-B6-H5	UBX400-GM30-B4-H5	UBX400-GM30-B6-H5
	UBX200-GM30-B5-H5	UBX200-GM30-B7-H5	UBX400-GM30-B5-H5	UBX400-GM30-B7-H5
	UBX200-GM30-B45-H5		UBX400-GM30-B45-H5	
检测范围 Detection range	100..2000mm		200...4000mm	
盲区 Dead band	0...100mm		0...200mm	
换能器频率 Transducer frequency	约180KHz Approx.180KHz		约85KHz Approx.85KHz	
响应时间 Response time	约150ms Approx.150ms		约325ms Approx.325ms	
开关频率 Switching frequency	≤3.3Hz		≤1.5Hz	
输出类型 Output type	B4: NPN NO/NC B5: PNP NO/NC B6: 2×PNP NO/NC B7: 2×NPN NO/NC B45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮:通电 Solid: Power on			
LED黄灯 LED yellow light	常亮:开关状态开关输出 闪烁:程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行:故障 程序功能:未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

标准符号/连接: (version B4)

标准符号/连接: (version B5)

标准符号/连接: (version B45)

标准符号/连接: (version B6)

标准符号/连接: (version B7)

单位Unit:mm

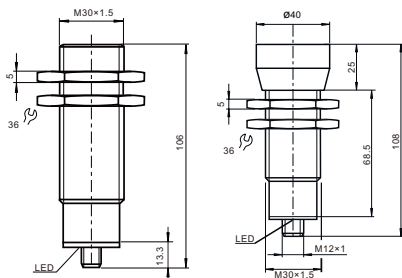
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-BI-H5	UBX200-GM30-BF-H5	UBX400-GM30-BI-H5	UBX400-GM30-BF-H5
	UBX200-GM30-BU-H5	UBX200-GM30-BJ-H5	UBX400-GM30-BU-H5	UBX400-GM30-BJ-H5
	UBX200-GM30-BIU-H5		UBX400-GM30-BIU-H5	
检测范围 Detection range	100..2000mm		200...4000mm	
盲区 Dead band	0...100mm		0...200mm	
换能器频率 Transducer frequency	约175KHz Approx.175KHz		约85KHz Approx.85KHz	
响应时间 Response time	约150ms Approx.150ms		约325ms Approx.325ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	BI: 4...20mA	BU: 0-10V	BF: 0...20mA	BJ: 0-5V
空载电流 No-load current	≤50mA		≤60mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 Solid: Power on			
LED黄灯 LED yellow light	常亮: 开关状态开关输出 闪烁: 程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行: 故障 程序功能: 未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

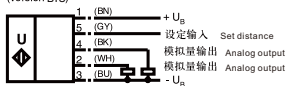
标准符号/连接:
(version BI)



标准符号/连接:
(version BU)



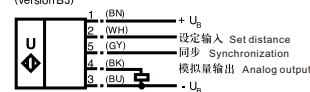
标准符号/连接:
(version BIU)



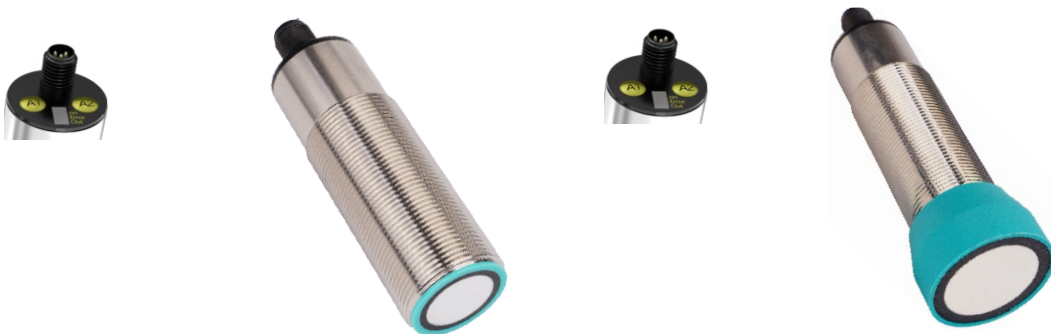
标准符号/连接:
(version BF)



标准符号/连接:
(version BJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-BI4-H5	UBX200-GM30-BI5-H5	UBX400-GM30-BI4-H5	UBX400-GM30-BI5-H5
	UBX200-GM30-BU4-H5	UBX200-GM30-BU5-H5	UBX400-GM30-BU4-H5	UBX400-GM30-BU5-H5
检测范围 Detection range	100...2000mm		200...4000mm	
盲区 Dead band	0...100mm		0...200mm	
换能器频率 Transducer frequency	约175KHz Approx.175KHz		约85KHz Approx.85KHz	
响应时间 Response time	约150ms Approx.150ms		约325ms Approx.325ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	BI4: NPN+4...20mA BI5: PNP+4...20mA			
	BU4: NPN+0-10V BU5: PNP+0-10V			
空载电流 No-load current	≤50mA		≤60mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮:通电 Solid: Power on			
LED黄灯 LED yellow light	常亮:开关状态开关输出 闪烁:程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行:故障 程序功能:未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version BI4)

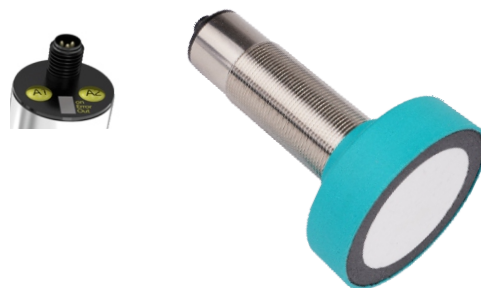
标准符号/连接:
(version BI5)

标准符号/连接:
(version BU4)

标准符号/连接:
(version BU5)

超声波传感器

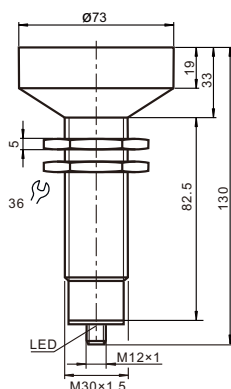
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX600-GM30-B4-H5	UBX600-GM30-B6-H5	UBX800-GM30-B4-H5	UBX800-GM30-B6-H5
	UBX600-GM30-B5-H5	UBX600-GM30-B7-H5	UBX800-GM30-B5-H5	UBX800-GM30-B7-H5
	UBX600-GM30-B45-H5		UBX800-GM30-B45-H5	
检测范围 Detection range	400...6000mm		500...8000mm	
盲区 Dead band	0...400mm		0...500mm	
换能器频率 Transducer frequency	约65KHz Approx.65KHz			
响应时间 Response time	约650ms Approx.650ms			
开关频率 Switching frequency	≤0.8Hz			
输出类型 Output type	B4: NPN NO/NC B5: PNP NO/NC B6: 2×PNP NO/NC B7: 2×NPN NO/NC B45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 Solid: Power on			
LED黄灯 LED yellow light	常亮: 开关状态开关输出 闪烁: 程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行: 故障 程序功能: 未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

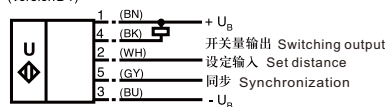


电气连接

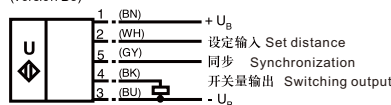
Electrical connections

单位Unit:mm

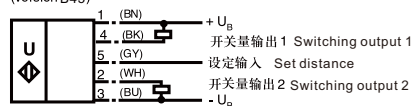
标准符号/连接:
(version B4)



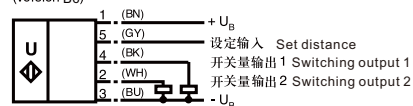
标准符号/连接:
(version B5)



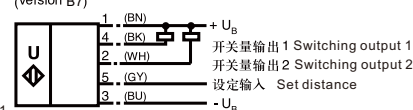
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(version B45)



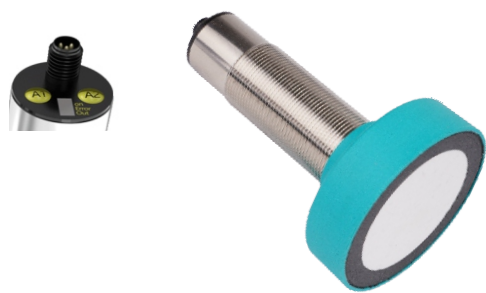
标准符号/连接:
(version B6)



标准符号/连接:
(version B7)



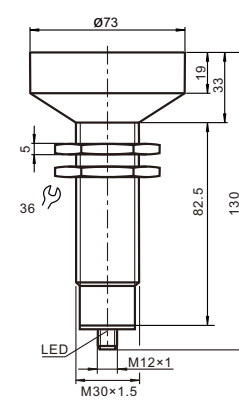
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX600-GM30-BI-H5	UBX600-GM30-BF-H5	UBX800-GM30-BI-H5	UBX800-GM30-BF-H5
	UBX600-GM30-BU-H5	UBX600-GM30-BJ-H5	UBX800-GM30-BU-H5	UBX800-GM30-BJ-H5
	UBX600-GM30-BIU-H5		UBX800-GM30-BIU-H5	
检测范围 Detection range	400..6000mm		500...8000mm	
盲区 Dead band	0...400mm		0...500mm	
换能器频率 Transducer frequency	约65KHz Approx.65KHz		约65KHz Approx.65KHz	
响应时间 Response time	约650ms Approx.650ms		约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	BI: 4...20mA	BU: 0-10V	BF: 0...20mA	BJ: 0-5V
空载电流 No-load current	≤60mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮:通电 Solid: Power on			
LED黄灯 LED yellow light	常亮:开关状态开关输出 闪烁:程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行:故障 程序功能:未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate				

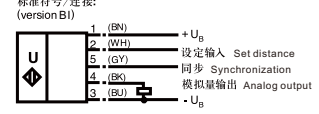
产品外形尺寸 Drawing




电气连接 Electrical connections

单位Unit:mm

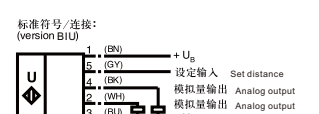
标准符号/连接: (version BI)



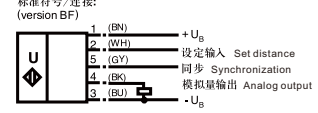
标准符号/连接: (version BU)




标准符号/连接: (version BIU)



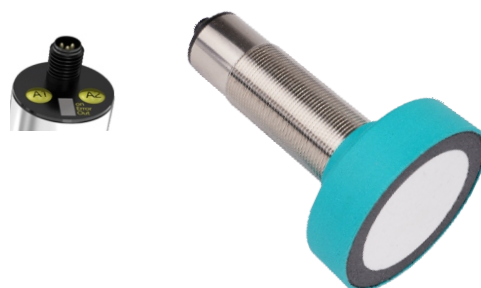
标准符号/连接: (version BF)



标准符号/连接: (version BJ)



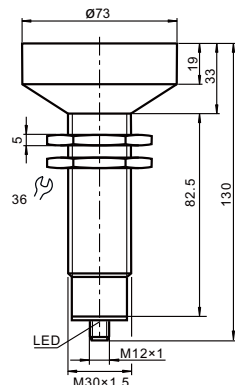
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX600-GM30-BI4-H5	UBX600-GM30-BI5-H5	UBX800-GM30-BI4-H5	UBX800-GM30-BI5-H5
	UBX600-GM30-BU4-H5	UBX600-GM30-BU5-H5	UBX800-GM30-BU4-H5	UBX800-GM30-BU5-H5
检测范围 Detection range	400...6000mm		500...8000mm	
盲区 Dead band	0...400mm		0...500mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz		约65KHz Approx.65KHz	
响应时间 Response time	约325ms Approx.325ms		约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	BI4: NPN+4...20mA BI5: PNP+4...20mA			
	BU4: NPN+0-10V BU5: PNP+0-10V			
空载电流 No-load current	≤60mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	满量程值的±0.1% ±0.1% of full-scale value			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protetion level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 Solid: Power on			
LED黄灯 LED yellow light	常亮: 开关状态开关输出 闪烁: 程序功能 solid: switching state switch output flashing: program function			
LED红灯 LED red light	正常运行: 故障 程序功能: 未检测到物体 ormal operation: "fault" program function: no object detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

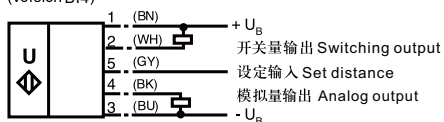


电气连接

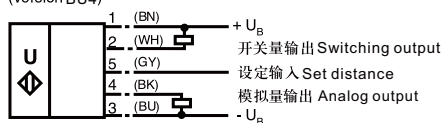
Electrical connections

单位Unit:mm

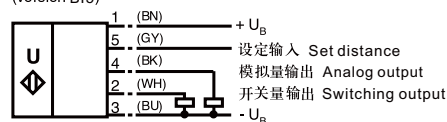
标准符号/连接:
(version BI4)



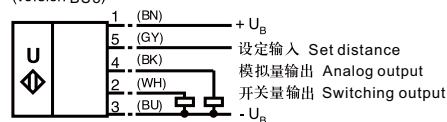
标准符号/连接:
(version BU4)



标准符号/连接:
(version BI5)



标准符号/连接:
(version BU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX100-GM1875-RS4-H4	UBX200-GM30-RS4-H4
检测范围 Detection range	70..1000mm	100...2000mm
盲区 Dead band	0...70mm	0...100mm
标准检测板 Standard detection plates	300×300mm	
响应时间 Response time	约125ms Approx.125ms	
电源电压 Supply voltage	10-30VDC/15-30VDC	
功耗 Power consumption	20mA	
输出类型 Output type	485	
重复精度 Repetitive accuracy	≤0.3%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP67	
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2mPVC cable	
角度 angle	10°	15°
LED绿灯 LED green light	电源指示灯，常亮 Power indicator, solid on	
LED黄灯 LED yellow light	表示设定范围内传感器检测到被测物 It indicates that the sensor catches the measured object within the set range	
LED红灯 LED red light	出错 (设定期间没检测到被测物, 被测物进入盲区, 传感器受到干扰等) Error (DUT not detected during setting, DUT entering blind zone, sensor interference, etc.)	
产品认证 Certificate	FC CE CCC RoHS EHC	

产品外形尺寸 Drawing

电气连接 Electrical connections

485

棕(BN) 黑(BK) R/T+
白(WH) 蓝(BU) R/T-
① ④
② ③
⑤

单位Unit:mm

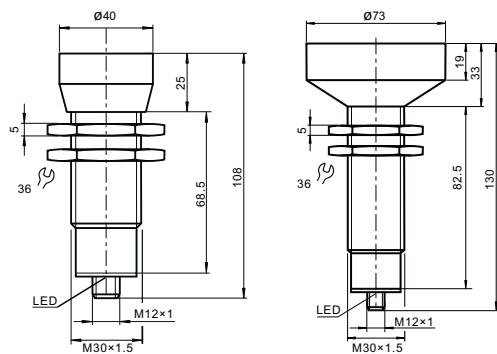
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GM30-RS4-H4	UBX600-GM30-RS4-H4
检测范围 Detection range	200..4000mm	400...6000mm
盲区 Dead band	0...200mm	0...400mm
标准检测板 Standard detection plates	300×300mm	
响应时间 Response time	约225ms Approx.225ms	约195ms Approx.195ms
电源电压 Supply voltage	10-30VDC/15-30VDC	10-30VDC
功耗 Power consumption	20ma	<20ma
输出类型 Output type	485	
重复精度 Repetitive accuracy	≤0.3%	≤0.1%
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP67	
连接方式 Connection type	H4 (4针) M12连接线/2mPVC电缆 H4 (4-pin) M12 connecting wire/2mPVC cable	
角度 angle	15°	25°
LED绿灯 LED green light	电源指示灯, 常亮 Power indicator, solid on	
LED黄灯 LED yellow light	表示设定范围内传感器检测到被测物 It indicates that the sensor catches the measured object within the set range	
LED红灯 LED red light	出错 (设定期间没检测到被测物, 被测物进入盲区, 传感器受到干扰等) Error (DUT not detected during setting, DUT entering blind zone, sensor interference, etc.)	
产品认证 Certificate	FC CE CCC RoHS EAC	

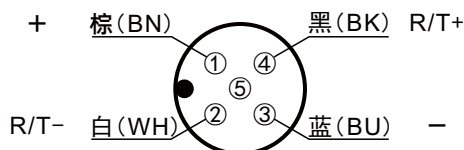
产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

485



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-IUR2-H5	UBX400-GM30-IUR2-H5	UBX600-GM30-IUR2-H5
	UBX200-GM30-E6R2-H5	UBX400-GM30-E6R2-H5	UBX600-GM30-E6R2-H5
检测范围 Detection range	100...2000mm	200...4000mm	400...6000mm
盲区 Dead band	0...100mm	0...200mm	0...400mm
换能器频率 Transducer frequency	约180KHz Approx.180KHz	约85KHz Approx.85KHz	约65KHz Approx.65KHz
响应时间 Response time	最小65ms 65ms min	最小145ms 145ms min	最小285ms 285ms min
标准目标板 Standard target plates	100mm×100mm		
输出类型 Output type	IUR2:4...20mA+0...10V		
	E6R2:2×PNP NO/NC		
功耗 Power consumption	≤900mW		
电源电压 Supply voltage	10-30VDC纹波10% 10-30VDC ripple 10%		
重复精度 Repetitive accuracy	满量程值的 ±0.1% ±0.1% of full-scale value		
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line		
防护等级 Protection level	IP65		
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2mPVC cable		
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state		
LED黄灯 LED yellow light	常亮: 检测范围内有目标物 闪烁: 设定功能 Solid: There is a target in the detection range Flashing: Set the function		
LED红灯 LED red light	常亮: 温度/设定插头未连接 闪烁: 出错或设定状态下未检测到目标物 Solid on: Temperature/set plug is not connected Flashing: Error or no target detected in the set state		
产品认证 Certificate	FC CE CCC RoHS EHC		

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm


标准符号/连接:
(version IUR2)

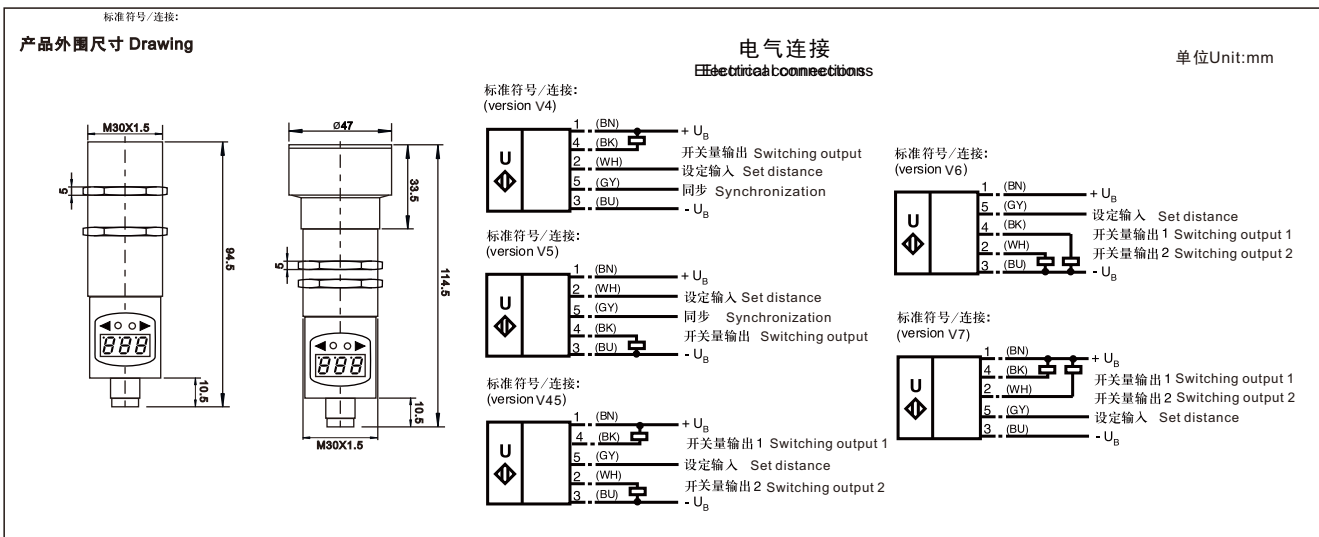
标准符号/连接:
(version E6R2)

超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-V4-H5	UBX200-GM30-V6-H5	UBX400-GM30-V4-H5	UBX400-GM30-V6-H5
	UBX200-GM30-V5-H5	UBX200-GM30-V7-H5	UBX400-GM30-V5-H5	UBX400-GM30-V7-H5
	UBX200-GM30-V45-H5		UBX400-GM30-V45-H5	
检测范围 Detection range	100..2000mm		200...4000mm	
盲区 Dead band	0...100mm		0...200mm	
换能器频率 Transducer frequency	约180KHz Approx.180KHz		约85KHz Approx.85KHz	
响应时间 Response time	约150ms Approx.150ms		约325ms Approx.325ms	
开关频率 Switching frequency	≤3.3Hz		≤1.5Hz	
输出类型 Output type	V4: NPN NO/NC V5: PNP NO/NC V6: 2×PNP NO/NC V7: 2×NPN NO/NC V45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				



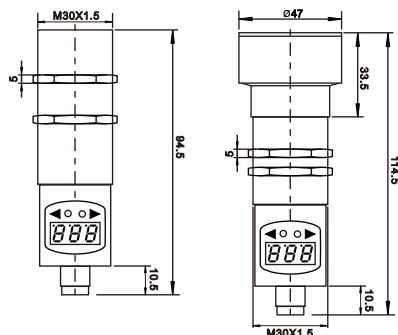
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GM30-VI4-H5	UBX200-GM30-VI5-H5	UBX400-GM30-VI4-H5	UBX400-GM30-VI5-H5
	UBX200-GM30-VU4-H5	UBX200-GM30-VU5-H5	UBX400-GM30-VU4-H5	UBX400-GM30-VU5-H5
检测范围 Detection range	100...2000mm		200...4000mm	
盲区 Dead band	0...100mm		0...200mm	
换能器频率 Transducer frequency	约180KHz Approx.180KHz		约85KHz Approx.85KHz	
响应时间 Response time	约150ms Approx.150ms		约325ms Approx.325ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	VI4: NPN+4...20mA VI5: PNP+4...20mA			
	VU4: NPN+0-10V VU5: PNP+0-10V			
空载电流 No-load current	≤60mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	常亮: 开关状态输出 闪烁: 设定 Solid: Switch status output Flashing: Setting			
LED红灯 LED red light	工作状态下: 出错 设定状态: 下未检测到目标物 Working Status: Error Setting Status: No target detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

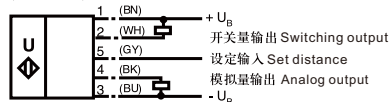
产品外形尺寸 Drawing



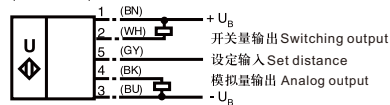
电气连接 Electrical connections

单位Unit:mm

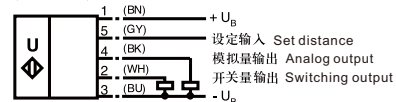
标准符号/连接:
(version V14)



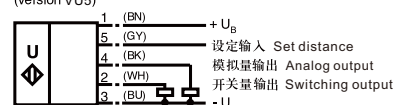
标准符号/连接:
(version VU4)



标准符号/连接:
(version V15)



标准符号/连接:
(version VU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX600-GM30-V4-H5	UBX600-GM30-V6-H5
	UBX600-GM30-V5-H5	UBX600-GM30-V7-H5
	UBX600-GM30-V45-H5	
检测范围 Detection range	400...6000mm	
盲区 Dead band	0...400mm	
换能器频率 Transducer frequency	约65KHz Approx.65KHz	
响应时间 Response time	约650ms Approx.650ms	
开关频率 Switching frequency	≤0.8Hz	
输出类型 Output type	V4: NPN NO/NC V5: PNP NO/NC V6: 2×PNP NO/NC V7: 2×NPN NO/NC V45: NPN+PNP NO/NC	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate		

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version V4)

标准符号/连接:
(version V6)

标准符号/连接:
(version V5)


标准符号/连接:
(version V7)

标准符号/连接:
(version V45)

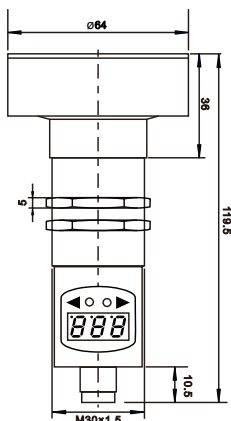
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

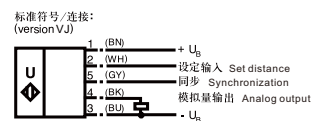
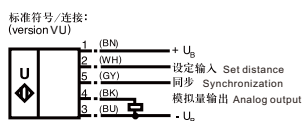
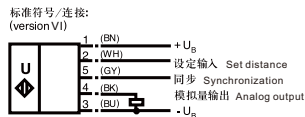
产品型号 Product model	UBX600-GM30-VI-H5	UBX600-GM30-VF-H5
	UBX600-GM30-VU-H5	UBX600-GM30-VJ-H5
	UBX600-GM30-VIU-H5	
检测范围 Detection range	400...6000mm	
盲区 Dead band	0...400mm	
换能器频率 Transducer frequency	约65KHz Approx.65KHz	
响应时间 Response time	约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	VI: 4...20mA	VU: 0-10V VF: 0...20mA VJ: 0-5V VIU: 4-20mA+0-10V
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate		

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX600-GM30-VI4-H5	UBX600-GM30-VI5-H5
	UBX600-GM30-VU4-H5	UBX600-GM30-VU5-H5
检测范围 Detection range	400...6000mm	
盲区 Dead band	0...400mm	
换能器频率 Transducer frequency	约65KHz Approx.65KHz	
响应时间 Response time	约650ms Approx.650ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	VI4: NPN+4...20mA VI5: PNP+4...20mA	
	VU4: NPN+0-10V VU5: PNP+0-10V	
空载电流 No-load current	≤60mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state	
LED黄灯 LED yellow light	常亮: 开关状态输出 闪烁: 设定 Solid: Switch status output Flashing: Setting	
LED红灯 LED red light	工作状态下: 出错 设定状态: 未检测到目标物 Working Status: Error Setting Status: No target detected	
产品认证 Certificate	FC CE CCC RoHS EHC	

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version V14)

标准符号/连接:
(version V15)

标准符号/连接:
(version VU4)

标准符号/连接:
(version VU5)

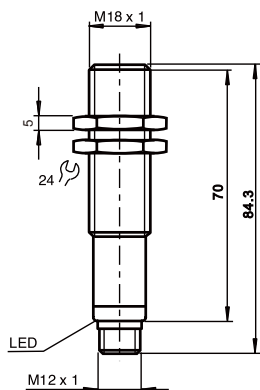
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX100-GM18-DT4-H5	UBX100-GM18-DT6-H5
	UBX100-GM18-DT5-H5	UBX100-GM18-DT7-H5
	UBX100-GM18-DT45-H5	
检测范围 Detection range	70...1000mm	
盲区 Dead band	0...70mm	
换能器频率 Transducer frequency	约255KHz Approx.255KHz	
响应时间 Response time	约125ms Approx.125ms	
开关频率 Switching frequency	≤3Hz	
输出类型 Output type	DT4: NPN NO/NC DT5: PNP NO/NC DT6: 2×PNP NO/NC DT7: 2×NPN NO/NC DT45: NPN+PNP NO/NC	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
材质 Material	感应头特氟龙材质(耐腐蚀) Induction head Teflon material (corrosion resistant)	
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EAC	

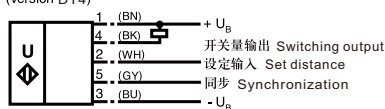
产品外形尺寸 Drawing



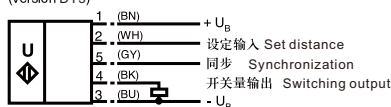
电气连接 Electrical connections

单位Unit:mm

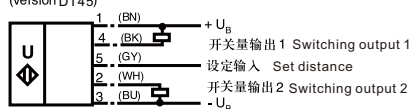
标准符号/连接:
(version DT4)



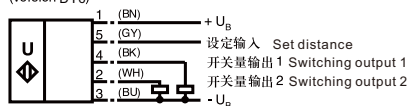
标准符号/连接:
(version DT5)



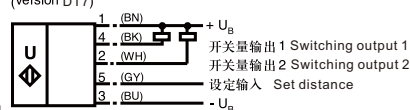
标准符号/连接:
(version DT45)



标准符号/连接:
(version DT6)



标准符号/连接:
(version DT7)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX100-GM18-DTI-H5	UBX100-GM18-DTF-H5
	UBX100-GM18-DTU-H5	UBX100-GM18-DTJ-H5
	UBX100-GM18-DTIU-H5	
检测范围 Detection range	70...1000mm	
盲区 Dead band	0...70mm	
换能器频率 Transducer frequency	约255KHz Approx.255KHz	
响应时间 Response time	约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DTI: 4...20mA DTU: 0-10V DTF: 0...20mA DTJ: 0-5V DTIU: 4-20mA+0-10V	
空载电流 No-load current	I:≤45mA U:≤50mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
材质 Material	感应头特氟龙材质(耐腐蚀) Induction head Teflon material (corrosion resistant)	
LED黄灯 LED yellow light	常亮: 物体在评估范围内 闪烁: 程序功能, 检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	常亮: 通电正常 常暗: 错误 闪烁: 程序功能, 未检测到物体 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate	FC CE CCC RoHS ENEC	

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DTI)

标准符号/连接: (version DTU)

标准符号/连接: (version DTIU)

标准符号/连接: (version DTF)

标准符号/连接: (version DTJ)

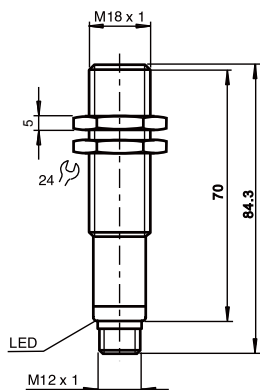
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX100-GM30-DT14-H5	UBX100-GM30-DT15-H5
	UBX100-GM30-DTU4-H5	UBX100-GM30-DTU5-H5
检测范围 Detection range	70...1000mm	
盲区 Dead band	0...70mm	
换能器频率 Transducer frequency	约255KHz Approx.255KHz	
响应时间 Response time	约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DT14: NPN+4...20mA DT15: PNP+4...20mA	
	DTU4: NPN+0-10V DTU5: PNP+0-10V	
空载电流 No-load current	I:≤45mA U:≤50mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protetion level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
材质 Material	感应头特氟龙材质(耐腐蚀) Induction head Teflon material (corrosion resistant)	
LED黄灯 LED yellow light	常亮:物体在评估范围内 闪烁:程序功能,检测到物体 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	常亮:通电正常 常暗:错误 闪烁:程序功能,未检测到物体 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EAC	

产品外形尺寸 Drawing

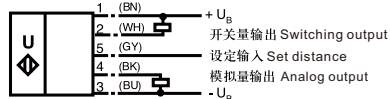


电气连接

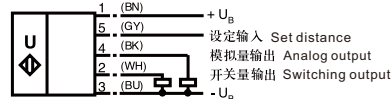
Electrical connections

单位Unit:mm

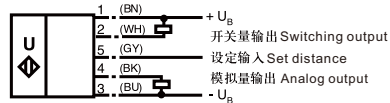
标准符号/连接:
(version DT14)



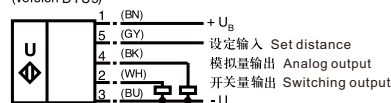
标准符号/连接:
(version DT15)



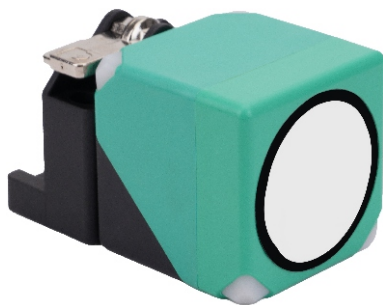
标准符号/连接:
(version DTU4)



标准符号/连接:
(version DTU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-L2-D4-H5	UCX50-L2-D6-H5	UCX200-L2-D4-H5	UCX200-L2-D6-H5
	UCX50-L2-D5-H5	UCX50-L2-D7-H5	UCX200-L2-D5-H5	UCX200-L2-D7-H5
	UCX50-L2-D45-H5		UCX200-L2-D45-H5	
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约55ms Approx.55ms		约120ms Approx.120ms	
开关频率 Switching frequency	≤14Hz		≤5Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

1 (BN) + U_B
4 (BK) 开关量输出 Switching output
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
3 (BU) - U_B

标准符号/连接:
(version D6, pnp)

1 (BN) + U_B
5 (GY) 设定输入 Set distance
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

标准符号/连接:
(version D5, pnp)

1 (BN) + U_B
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
4 (BK) 开关量输出 Switching output
3 (BU) - U_B

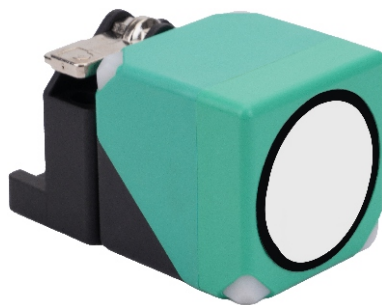
标准符号/连接:
(version D7, npn)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
5 (GY) 设定输入 Set distance
3 (BU) - U_B

标准符号/连接:
(version D45)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
5 (GY) 设定输入 Set distance
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

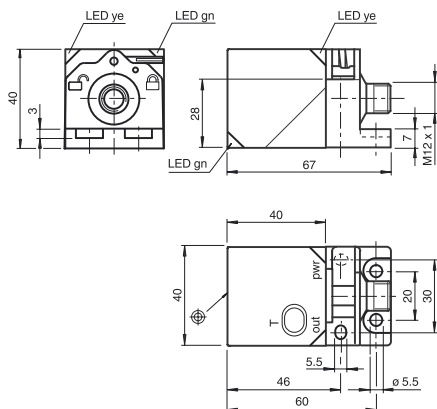
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-L2-DI-H5	UCX50-L2-DF-H5	UCX200-L2-DI-H5	UCX200-L2-DF-H5
	UCX50-L2-DU-H5	UCX50-L2-DJ-H5	UCX200-L2-DU-H5	UCX200-L2-DJ-H5
	UCX50-L2-DIU-H5		UCX200-L2-DIU-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约145ms Approx.145ms		约330ms Approx.330ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing



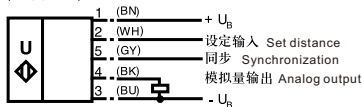
电气连接 Electrical connections

单位Unit:mm

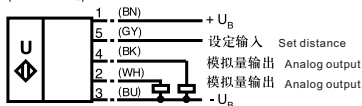
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



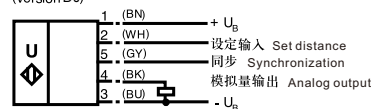
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-L2-DI4-H5	UCX50-L2-DI5-H5	UCX200-L2-DI4-H5	UCX200-L2-DI5-H5
	UCX50-L2-DU4-H5	UCX50-L2-DU5-H5	UCX200-L2-DU4-H5	UCX200-L2-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约145ms Approx.145ms		约330ms Approx.330ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

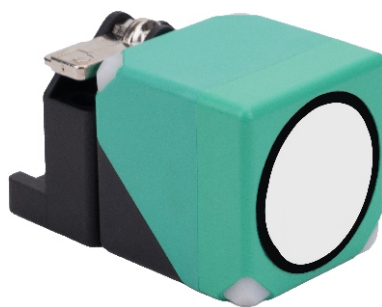
标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)


标准符号/连接:
(version DU5)

超声波传感器

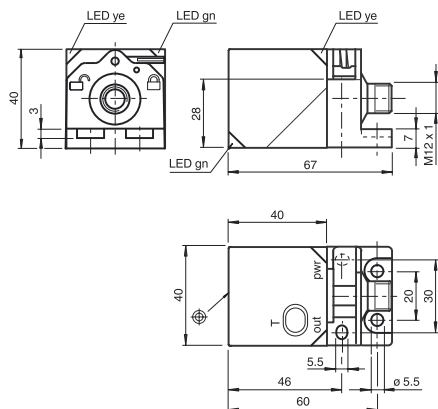
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-L2-D4-H5	UCX400-L2-D6-H5
	UCX400-L2-D5-H5	UCX400-L2-D7-H5
	UCX400-L2-D45-H5	
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
开关频率 Switching frequency	≤2.8Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.1%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate		

产品外形尺寸 Drawing

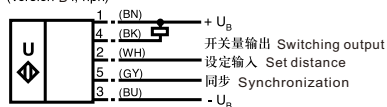


电气连接

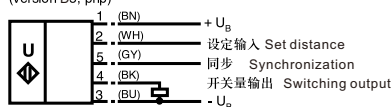
Electrical connections

单位Unit:mm

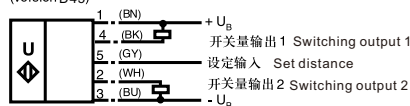
标准符号/连接:
(version D4, npn)



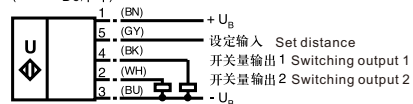
标准符号/连接:
(version D5, pnp)



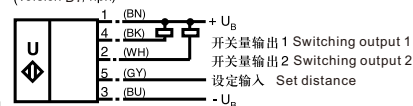
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-L2-DI-H5	UCX400-L2-DF-H5
	UCX400-L2-DU-H5	UCX400-L2-DJ-H5
	UCX400-L2-DIU-H5	
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DI: 4...20mA DU: 0-10V DF: 0...20mA DJ: 0-5V DIU: 4-20mA+0-10V	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.1%	
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EHL	

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI)

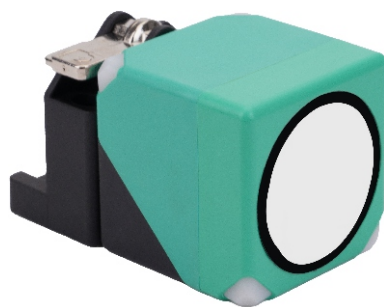
标准符号/连接:
(version DU)

标准符号/连接:
(version DIU)

标准符号/连接:
(version DF)

标准符号/连接:
(version DJ)

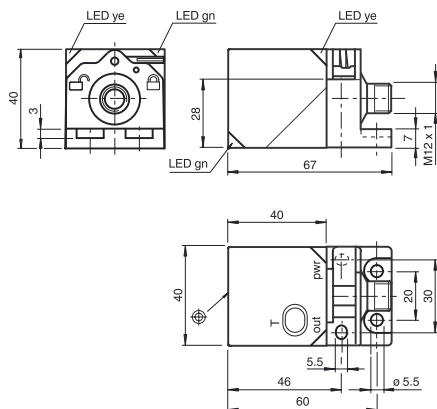
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-L2-DI4-H5	UCX400-L2-DI5-H5
	UCX400-L2-DU4-H5	UCX400-L2-DU5-H5
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA	
	DU4: NPN+0-10V DU5: PNP+0-10V	
空载电流 No-load current	≤50mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.1%	
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button	
防护等级 Protetion level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED绿灯 LED green light	常亮：通电 闪烁：设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state	
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state	
LED红灯 LED red light	红灯常亮：出错 红灯闪烁：设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EHC	

产品外形尺寸 Drawing

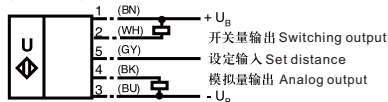


电气连接

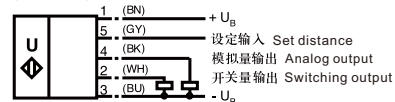
Electrical connections

单位Unit:mm

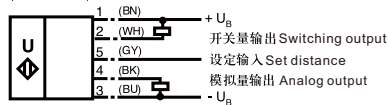
标准符号/连接:
(version D14)



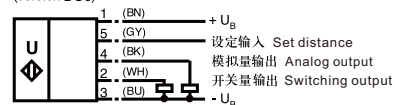
标准符号/连接:
(version D15)



标准符号/连接:
(version DU4)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-U9-D4-H5	UCX50-U9-D6-H5	UCX200-U9-D4-H5	UCX200-U9-D6-H5
	UCX50-U9-D5-H5	UCX50-U9-D7-H5	UCX200-U9-D5-H5	UCX200-U9-D7-H5
	UCX50-U9-D45-H5		UCX200-U9-D45-H5	
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约55ms Approx.55ms		约120ms Approx.120ms	
开关频率 Switching frequency	≤14Hz		≤5Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	通接线盒, 线芯横截面积≤2.5 mm ² Junction box with a core cross-sectional area of ≤2.5 mm ²			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

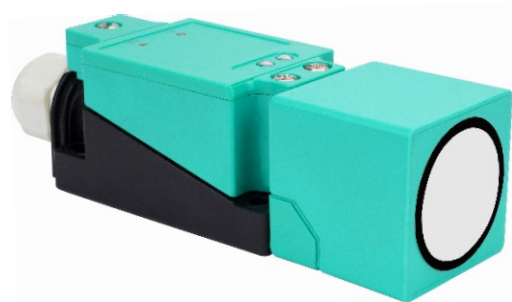
标准符号/连接:
(version D6, pnp)

标准符号/连接:
(version D5, pnp)


标准符号/连接:
(version D7, npn)

标准符号/连接:
(version D45)

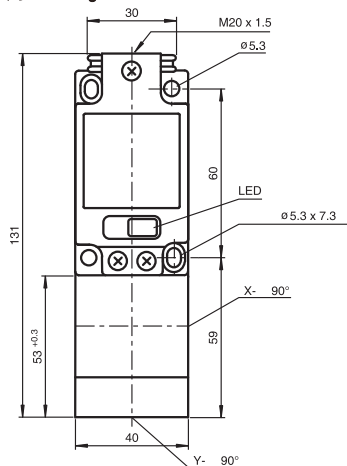
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-U9-DI-H5	UCX50-U9-DF-H5	UCX200-U9-DI-H5	UCX200-U9-DF-H5
	UCX50-U9-DU-H5	UCX50-U9-DJ-H5	UCX200-U9-DU-H5	UCX200-U9-DJ-H5
	UCX50-U9-DIU-H5		UCX200-U9-DIU-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约145ms Approx.145ms		约330ms Approx.330ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

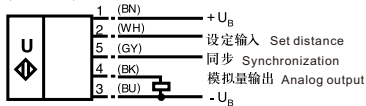


电气连接

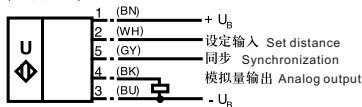
Electrical connections

单位Unit:mm

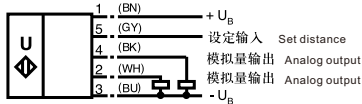
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



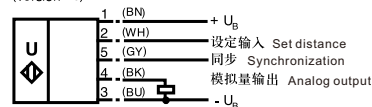
标准符号/连接:
(version DIU)



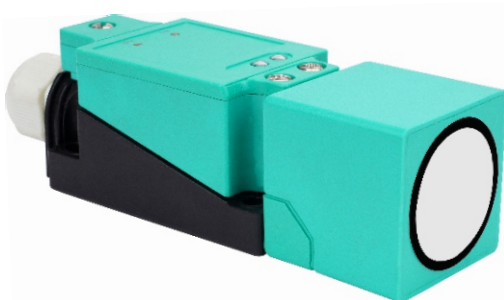
标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-U9-DI4-H5	UCX50-U9-DI5-H5	UCX200-U9-DI4-H5	UCX200-U9-DI5-H5
	UCX50-U9-DU4-H5	UCX50-U9-DU5-H5	UCX200-U9-DU4-H5	UCX200-U9-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约145ms Approx.145ms		约330ms Approx.330ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

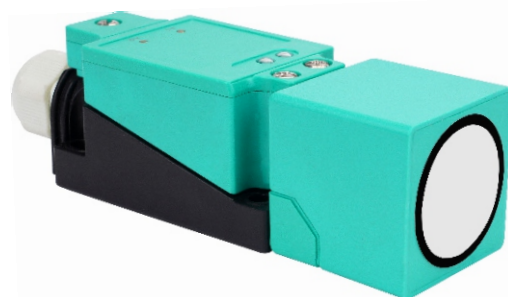
标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)


标准符号/连接:
(version DU5)

超声波传感器

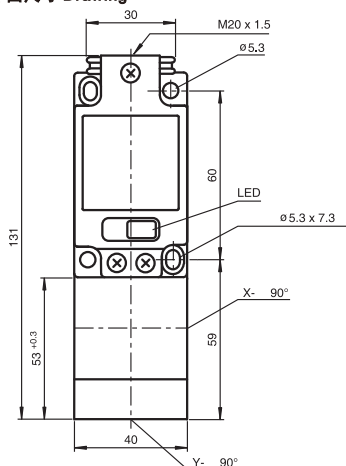
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-U9-D4-H5	UCX400-U9-D6-H5
	UCX400-U9-D5-H5	UCX400-U9-D7-H5
	UCX400-U9-D45-H5	
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
开关频率 Switching frequency	≤2.8Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate		

产品外形尺寸 Drawing



电气连接

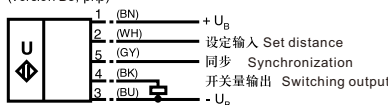
Electrical connections

单位Unit:mm

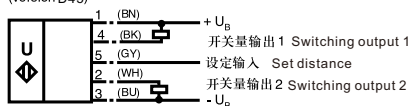
标准符号/连接:
(version D4, npn)



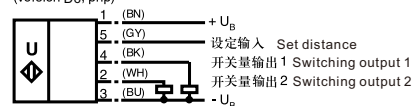
标准符号/连接:
(version D5, pnp)



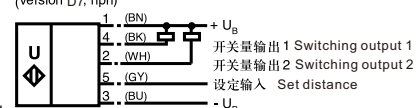
标准符号/连接:
(version D45)



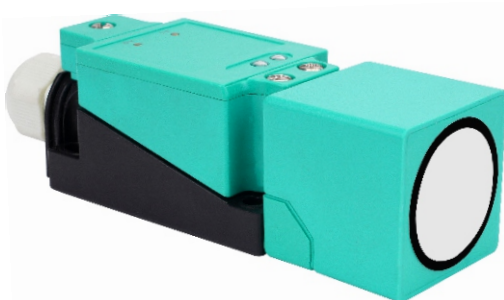
标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor

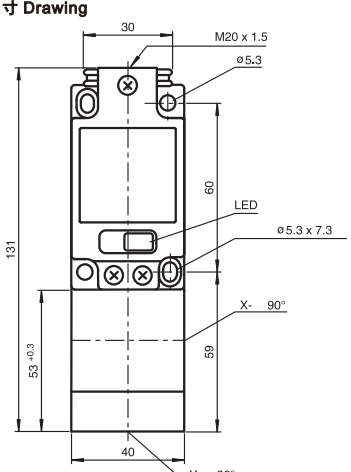


技术参数 Technical parameters

产品型号 Product model	UCX400-U9-DI-H5	UCX400-U9-DF-H5
	UCX400-U9-DU-H5	UCX400-U9-DJ-H5
	UCX400-U9-DIU-H5	
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DI: 4...20mA DU: 0-10V DF: 0...20mA DJ: 0-5V DIU: 4-20mA+0-10V	
额定工作电流 Rated operating current	200mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button	
防护等级 Protection level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EHL	

超声波传感器
Ultrasonic Sensors

产品外形尺寸 Drawing



电气连接 Electrical connections

标准符号/连接: (version DI)

1 (BN)	+ U _B
2 (WH)	设定输入 Set distance
5 (GY)	同步 Synchronization
4 (BK)	模拟量输出 Analog output
3 (BU)	- U _B

标准符号/连接: (version DU)

1 (BN)	+ U _B
2 (WH)	设定输入 Set distance
5 (GY)	同步 Synchronization
4 (BK)	模拟量输出 Analog output
3 (BU)	- U _B

标准符号/连接: (version DIU)

1 (BN)	+ U _B
5 (GY)	设定输入 Set distance
4 (BK)	模拟量输出 Analog output
2 (WH)	模拟量输出 Analog output
3 (BU)	- U _B

标准符号/连接: (version DF)

1 (BN)	+ U _B
2 (WH)	设定输入 Set distance
5 (GY)	同步 Synchronization
4 (BK)	模拟量输出 Analog output
3 (BU)	- U _B

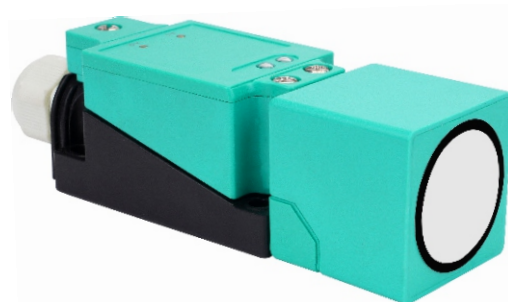
标准符号/连接: (version DJ)

1 (BN)	+ U _B
2 (WH)	设定输入 Set distance
5 (GY)	同步 Synchronization
4 (BK)	模拟量输出 Analog output
3 (BU)	- U _B

单位Unit:mm

超声波传感器

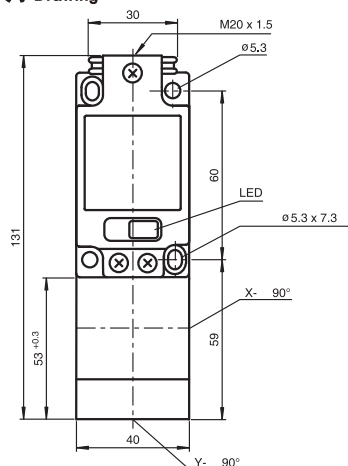
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-U9-DI4-H5	UCX400-U9-DI5-H5
	UCX400-U9-DU4-H5	UCX400-U9-DU5-H5
检测范围 Detection range	200...4000mm	
盲区 Dead band	0...200mm	
换能器频率 Transducer frequency	约85KHz Approx.85KHz	
响应时间 Response time	约615ms Approx.615ms	
标准目标板 Standard target plates	100mm×100mm	
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA	
	DU4: NPN+0-10V DU5: PNP+0-10V	
空载电流 No-load current	≤50mA	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button	
防护等级 Protetion level	IP65	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state	
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state	
产品认证 Certificate	FC CE CCC RoHS EHC	

产品外形尺寸 Drawing

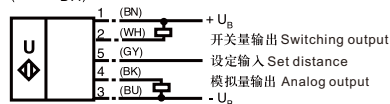


电气连接

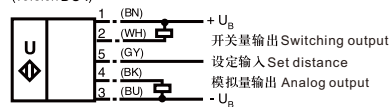
Electrical connections

单位Unit:mm

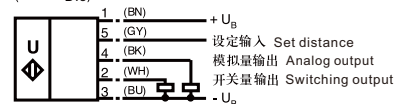
标准符号/连接:
(version D14)



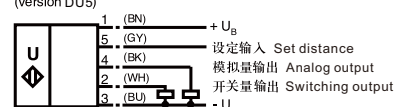
标准符号/连接:
(version DU4)



标准符号/连接:
(version D15)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42S-D4-H5	UCX50-F42S-D6-H5	UCX200-F42S-D4-H5	UCX200-F42S-D6-H5
	UCX50-F42S-D5-H5	UCX50-F42S-D7-H5	UCX200-F42S-D5-H5	UCX200-F42S-D7-H5
	UCX50-F42S-D45-H5		UCX200-F42S-D45-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
开关频率 Switching frequency	≤10Hz		≤3.3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

1 (BN) + U_B
4 (BK) 开关量输出 Switching output
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
3 (BU) - U_B

标准符号/连接:
(version D6, pnp)

1 (BN) + U_B
5 (GY) 设定输入 Set distance
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

标准符号/连接:
(version D5, pnp)

1 (BN) + U_B
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
4 (BK) 开关量输出 Switching output
3 (BU) - U_B

标准符号/连接:
(version D7, npn)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
5 (GY) 设定输入 Set distance
3 (BU) - U_B

标准符号/连接:
(version D45)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
5 (GY) 设定输入 Set distance
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

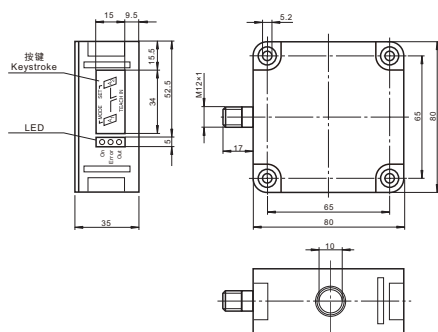
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42S-DI-H5	UCX50-F42S-DF-H5	UCX200-F42S-DI-H5	UCX200-F42S-DF-H5
	UCX50-F42S-DU-H5	UCX50-F42S-DJ-H5	UCX200-F42S-DU-H5	UCX200-F42S-DJ-H5
	UCX50-F42S-DIU-H5		UCX200-F42S-DIU-H5	
检测范围 Detection range	50..50mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

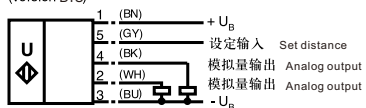
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42S-DI4-H5	UCX50-F42S-DI5-H5	UCX200-F42S-DI4-H5	UCX200-F42S-DI5-H5
	UCX50-F42S-DU4-H5	UCX50-F42S-DU5-H5	UCX200-F42S-DU4-H5	UCX200-F42S-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU5)

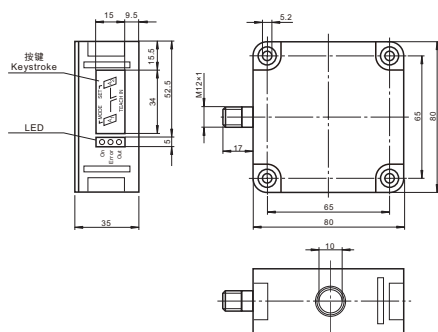
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42S-UK-H5	UCX200-F42S-UK-H5
检测范围 Detection range	50...500mm	100...2000mm
盲区 Dead band	0...50mm	0...100mm
换能器频率 Transducer frequency	约380KHz Approx.380KHz	约180KHz Approx.180KHz
响应时间 Response time	约50ms Approx.50ms	约150ms Approx.150ms
开关频率 Switching frequency	≤10Hz	≤3.3Hz
标准目标板 Standard target plates	100mm × 100mm	
输出类型 Output type	一个继电器输出 One relay output	
额定工作电流 Rated operating current	3A	
电源电压 Supply voltage	20-250 VAC	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP54	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED绿灯 LED green light	常亮：通电 闪烁：设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state	
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state	
LED红灯 LED red light	红灯常亮：出错 红灯闪烁：设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state	
产品认证 Certificate	FC CE CCC RoHS ENEC	

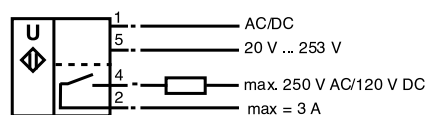
产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version UK)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42-D4-H5	UCX50-F42-D6-H5	UCX200-F42-D4-H5	UCX200-F42-D6-H5
	UCX50-F42-D5-H5	UCX50-F42-D7-H5	UCX200-F42-D5-H5	UCX200-F42-D7-H5
	UCX50-F42-D45-H5		UCX200-F42-D45-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
开关频率 Switching frequency	≤10Hz		≤3.3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

1 (BN) + U_B
4 (BK) 开关量输出 Switching output
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
3 (BU) - U_B

标准符号/连接:
(version D6, pnp)

1 (BN) + U_B
5 (GY) 设定输入 Set distance
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

标准符号/连接:
(version D5, pnp)

1 (BN) + U_B
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
4 (BK) 开关量输出 Switching output
3 (BU) - U_B

标准符号/连接:
(version D7, npn)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
5 (GY) 设定输入 Set distance
3 (BU) - U_B

标准符号/连接:
(version D45)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
5 (GY) 设定输入 Set distance
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

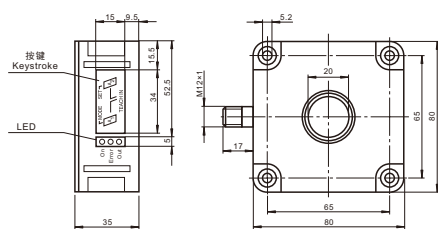
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42-DI-H5	UCX50-F42-DF-H5	UCX200-F42-DI-H5	UCX200-F42-DF-H5
	UCX50-F42-DU-H5	UCX50-F42-DJ-H5	UCX200-F42-DU-H5	UCX200-F42-DJ-H5
	UCX50-F42-DIU-H5		UCX200-F42-DIU-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

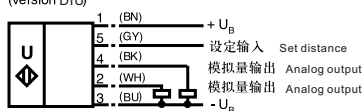
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



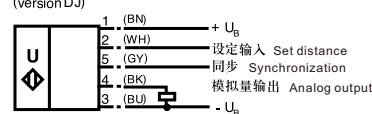
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42-DI4-H5	UCX50-F42-DI5-H5	UCX200-F42-DI4-H5	UCX200-F42-DI5-H5
	UCX50-F42-DU4-H5	UCX50-F42-DU5-H5	UCX200-F42-DU4-H5	UCX200-F42-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约180KHz Approx.180KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

超声波传感器

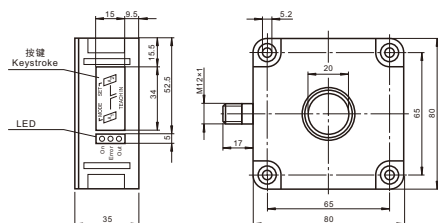
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F42-UK-H5	UCX200-F42-UK-H5
检测范围 Detection range	50...500mm	100...2000mm
盲区 Dead band	0...50mm	0...100mm
换能器频率 Transducer frequency	约380KHz Approx.380KHz	约180KHz Approx.180KHz
响应时间 Response time	约50ms Approx.50ms	约150ms Approx.150ms
开关频率 Switching frequency	≤10Hz	≤3.3Hz
标准目标板 Standard target plates	100mm × 100mm	
输出类型 Output type	一个继电器输出 One relay output	
额定工作电流 Rated operating current	3A	
电源电压 Supply voltage	20-250 VAC	
重复精度 Repetitive accuracy	≤0.5%	
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line	
防护等级 Protection level	IP54	
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable	
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state	
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state	
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state	
产品认证 Certificate		

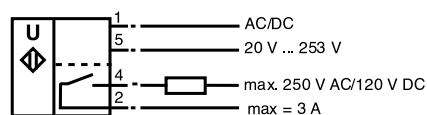
产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version UK)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-F42-D4-H5	UCX400-F42-D5-H5	UCX400-F42-D6-H5	UCX400-F42-D7-H5
		UCX400-F42-D45-H5		
检测范围 Detection range	200...4000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约85KHz Approx.85KHz			
响应时间 Response time	约325ms Approx.325ms			
开关频率 Switching frequency	≤1.5Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

标准符号/连接:
(version D6, pnp)

标准符号/连接:
(version D5, pnp)

标准符号/连接:
(version D7, npn)

标准符号/连接:
(version D45)

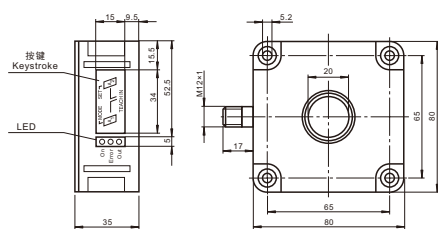
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-F42-DI-H5	UCX400-F42-DU-H5	UCX400-F42-DF-H5	UCX400-F42-DJ-H5
		UCX400-F42-DIU-H5		
检测范围 Detection range	200...4000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约85KHz Approx.85KHz			
响应时间 Response time	约325ms Approx.325ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ERI			

产品外形尺寸 Drawing



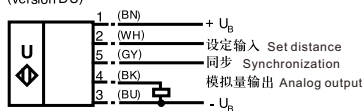
电气连接 Electrical connections

单位Unit:mm

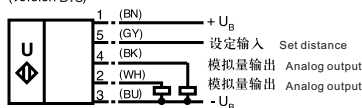
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(version DI)



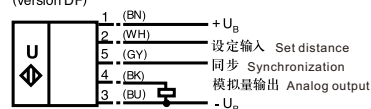
标准符号/连接:
(version DU)



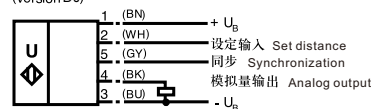
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-F42-DI4-H5	UCX400-F42-DI5-H5	UCX400-F42-DI4-H5	UCX400-F42-DI5-H5
检测范围 Detection range	200...4000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约85KHz Approx.85KHz			
响应时间 Response time	约325ms Approx.325ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA		DI5: PNP+4...20mA	
	DU4: NPN+0-10V		DU5: PNP+0-10V	
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

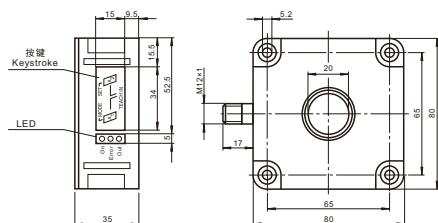
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX400-F42-UK-H5
检测范围 Detection range	200...4000mm
盲区 Dead band	0...200mm
换能器频率 Transducer frequency	约85KHz Approx.85KHz
响应时间 Response time	约325ms Approx.325ms
开关频率 Switching frequency	≤1.5Hz
标准目标板 Standard target plates	100mm × 100mm
输出类型 Output type	一个继电器输出 One relay output
额定工作电流 Rated operating current	3A
电源电压 Supply voltage	20-250 VAC
重复精度 Repetitive accuracy	≤0.5%
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line
防护等级 Protection level	IP54
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state
产品认证 Certificate	FC CE CCC RoHS ENEC

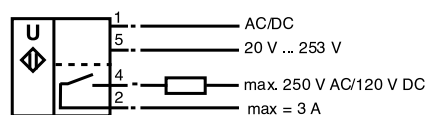
产品外形尺寸 Drawing



电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version UK)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX600-F42-D4-H5	UCX600-F42-D5-H5	UCX600-F42-D6-H5	UCX600-F42-D7-H5
	UCX600-F42-D45-H5			
检测范围 Detection range	400...6000mm			
盲区 Dead band	0...400mm			
换能器频率 Transducer frequency	约65KHz Approx.65KHz			
响应时间 Response time	约650ms Approx.650ms			
开关频率 Switching frequency	≤0.8Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP54			
连接方式 Connection type	通接线盒，线芯横截面积≤2.5 mm ² Junction box with a core cross-sectional area of ≤2.5 mm ²			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

标准符号/连接:
(version D5, pnp)

标准符号/连接:
(version D6, pnp)

标准符号/连接:
(version D45)

标准符号/连接:
(version D7, npn)

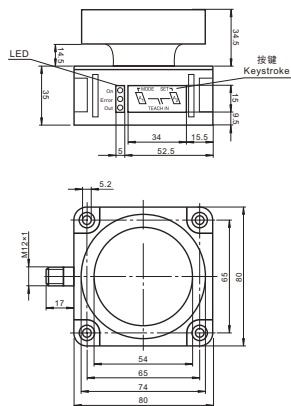
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX600-F42-DI-H5	UCX600-F42-DU-H5	UCX600-F42-DF-H5	UCX600-F42-DJ-H5
		UCX600-F42-DIU-H5		
检测范围 Detection range	400...6000mm			
盲区 Dead band	0...400mm			
换能器频率 Transducer frequency	约65KHz Approx.65KHz			
响应时间 Response time	约650ms Approx.650ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protetion level	IP54			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ERI			

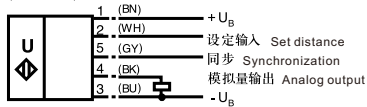
产品外围尺寸 Drawing



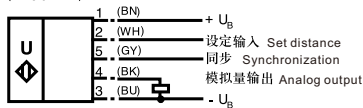
电气连接 Electrical connections

单位Unit:mm

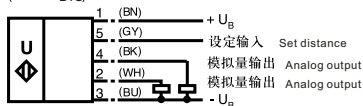
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



标准符号/连接:
(version DIU)



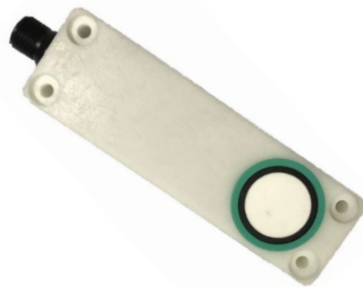
标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F54-D4-H5	UCX50-F54-D6-H5	UCX200-F54-D4-H5	UCX200-F54-D6-H5
	UCX50-F54-D5-H5	UCX50-F54-D7-H5	UCX200-F54-D5-H5	UCX200-F54-D7-H5
	UCX50-F54-D45-H5		UCX200-F54-D45-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
开关频率 Switching frequency	≤10Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	常亮: 开关状态输出 闪烁: 设定 Solid: Switch status output Flashing: Setting			
LED红灯 LED red light	工作状态下: 出错 设定状态: 下未检测到目标物 Working Status: Error Setting Status: No target detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外圈尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

标准符号/连接:
(version D5, pnp)

标准符号/连接:
(version D45)

标准符号/连接:
(version D6, pnp)

标准符号/连接:
(version D7, npn)

超声波传感器

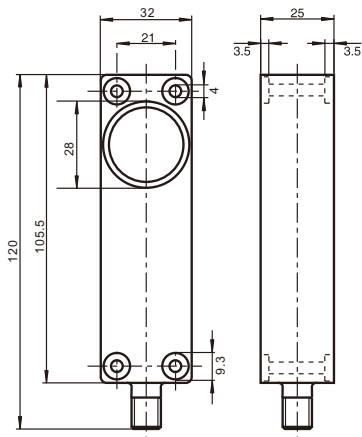
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F54-DI-H5	UCX50-F54-DF-H5	UCX200-F54-DI-H5	UCX200-F54-DF-H5
	UCX50-F54-DU-H5	UCX50-F42-DJ-H5	UCX200-F54-DU-H5	UCX200-F54-DJ-H5
	UCX50-F54-DIU-H5		UCX200-F54-DIU-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	常亮: 开关状态输出 闪烁: 设定 Solid: Switch status output Flashing: Setting			
LED红灯 LED red light	工作状态下: 出错 设定状态: 下未检测到目标物 Working Status: Error Setting Status: No target detected			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

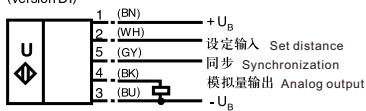


电气连接

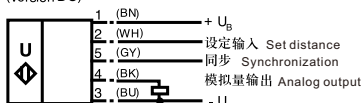
Electrical connections

单位Unit:mm

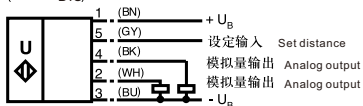
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



标准符号/连接:
(version DIU)



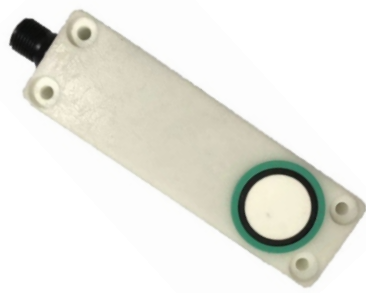
标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F54-DI4-H5	UCX50-F54-DI5-H5	UCX200-F54-DI4-H5	UCX200-F54-DI5-H5
	UCX50-F54-DU4-H5	UCX50-F54-DU5-H5	UCX200-F54-DU4-H5	UCX200-F54-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

超声波传感器

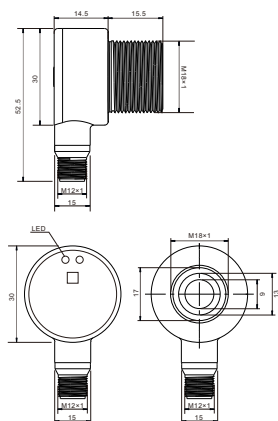
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-T18-D4-H5	UBX100-T18-D4-H5	UBX50-T18-D6-H5	UBX100-T18-D6-H5
	UBX50-T18-D5-H5	UBX100-T18-D5-H5	UBX50-T18-D7-H5	UBX100-T18-D7-H5
检测范围 Detection range	50...500mm	70...1000mm	50...500mm	70...1000mm
盲区 Dead band	0...50mm	0...70mm	0...50mm	0...70mm
换能器频率 Transducer frequency	约380KHz Approx.380KHz	约205KHz Approx.205KHz	约380KHz Approx.380KHz	约205KHz Approx.205KHz
响应时间 Response time	约50ms Approx.50ms	约125ms Approx.125ms	最小50ms 50ms min	最小125ms 125ms min
开关频率 Switching frequency	≤8Hz	≤3Hz	≤8Hz	≤3Hz
输出类型 Output type	D4: NPN NO/NC D6: 2×PNP NO/NC			
	D5: PNP NO/NC D7: 2×NPN NO/NC			
额定工作电流 Rated operating current	200mA 短路保护/过载保护 200mA short-circuit protection/overload protection		2×100mA 短路保护/过载保护 2×100mA short-circuit protection/overload protection	
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

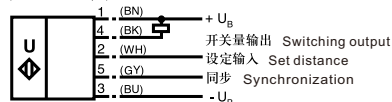


电气连接

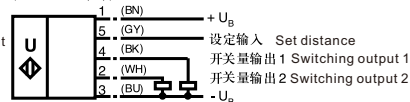
Electrical connections

单位Unit:mm

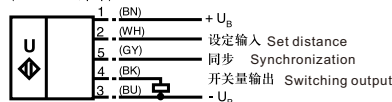
标准符号/连接:
(version D4, npn)



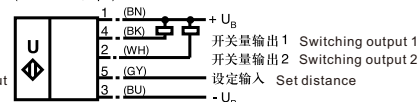
标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D5, pnp)



标准符号/连接:
(version D7, npn)



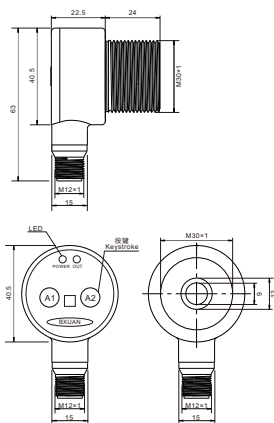
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-T30-D4-H5	UBX50-T30-D6-H5	UBX200-T30-D4-H5	UBX200-T30-D6-H5
	UBX50-T30-D5-H5	UBX50-T30-D7-H5	UBX200-T30-D5-H5	UBX200-T30-D7-H5
	UBX50-T30-D45-H5		UBX200-T30-D45-H5	
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
开关频率 Switching frequency	≤10Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

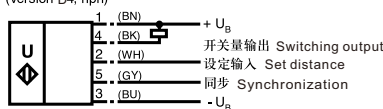


电气连接

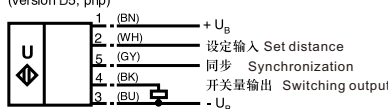
Electrical connections

单位Unit:mm

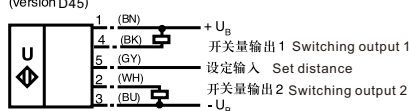
标准符号/连接:
(version D4, npn)



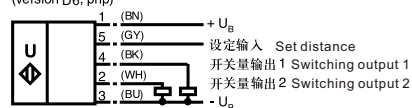
标准符号/连接:
(version D5, pnp)



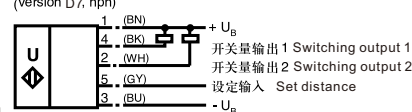
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



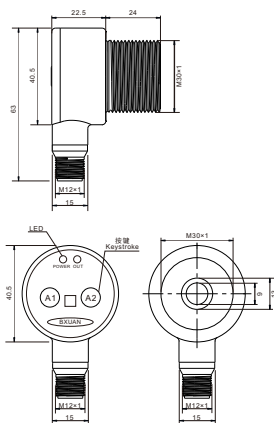
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-T30-DI4-H5	UBX50-T30-DI5-H5	UBX200-T30-DI4-H5	UBX200-T30-DI5-H5
	UBX50-T30-DU5-H5	UBX50-T30-DU5-H5	UBX200-T30-DU5-H5	UBX200-T30-DU5-H5
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约175KHz Approx.175KHz	
响应时间 Response time	约50ms Approx.50ms		约150ms Approx.150ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

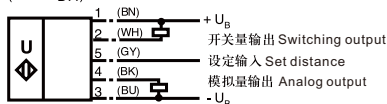


电气连接

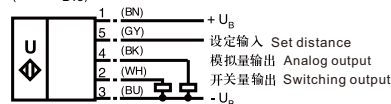
Electrical connections

单位Unit:mm

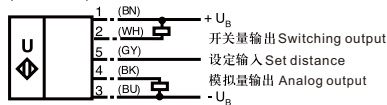
标准符号/连接:
(version DI4)



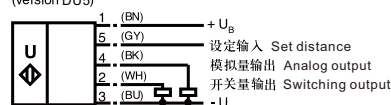
标准符号/连接:
(version DI5)



标准符号/连接:
(version DU4)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GS18-D4-H5	UBX50-GS18-D6-H5	UBX100-GS18-D4-H5	UBX100-GS18-D6-H5
	UBX50-GS18-D5-H5	UBX50-GS18-D7-H5	UBX100-GS18-D5-H5	UBX100-GS18-D7-H5
	UBX50-GS18-D45-H5		UBX100-GS18-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤8Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

1. (BN) + U_B
4. (BK) 开关量输出 Switching output
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
3. (BU) - U_B

标准符号/连接:
(version D6, pnp)

1. (BN) + U_B
5. (GY) 设定输入 Set distance
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

标准符号/连接:
(version D5, pnp)

1. (BN) + U_B
2. (WH) 设定输入 Set distance
5. (GY) 同步 Synchronization
4. (BK) 开关量输出 Switching output
3. (BU) - U_B

标准符号/连接:
(version D7, npn)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
2. (WH) 开关量输出 2 Switching output 2
5. (GY) 设定输入 Set distance
3. (BU) - U_B

标准符号/连接:
(version D45)

1. (BN) + U_B
4. (BK) 开关量输出 1 Switching output 1
5. (GY) 设定输入 Set distance
2. (WH) 开关量输出 2 Switching output 2
3. (BU) - U_B

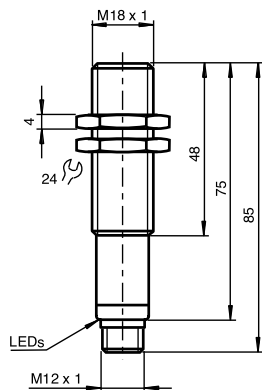
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GS18-DI-H5	UBX50-GS18-DF-H5	UBX100-GS18-DI-H5	UBX100-GS18-DF-H5
	UBX50-GS18-DU-H5	UBX50-GS18-DJ-H5	UBX100-GS18-DU-H5	UBX100-GS18-DJ-H5
	UBX50-GS18-DIU-H5		UBX100-GS18-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	I: ≤45mA U: ≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

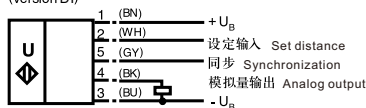
产品外形尺寸 Drawing



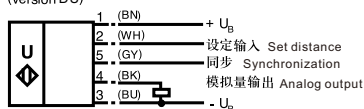
电气连接 Electrical connections

单位Unit:mm

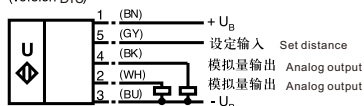
标准符号/连接:
(version DI)



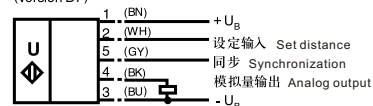
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(version DU)



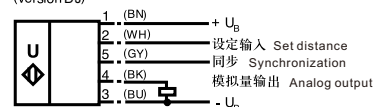
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-GS18-DI4-H5	UBX50-GS18-DI5-H5	UBX100-GS18-DI4-H5	UBX100-GS18-DI5-H5
	UBX50-GS18-DU4-H5	UBX50-GS18-DU5-H5	UBX100-GS18-DU4-H5	UBX100-GS18-DU5-H5
检测范围 Detection range	50...500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约390KHz Approx.390KHz		约255KHz Approx.255KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	I:≤45mA U:≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

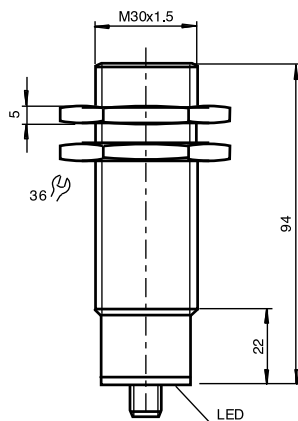
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GS30-D4-H5	UBX200-GS30-D5-H5	UBX200-GS30-D6-H5	UBX200-GS30-D7-H5
		UBX200-GS30-D45-H5		
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...100mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
开关频率 Switching frequency	≤3Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHL			

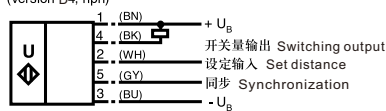
产品外形尺寸 Drawing



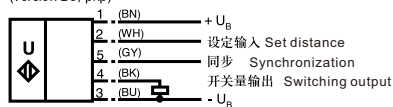
电气连接 Electrical connections

单位Unit:mm

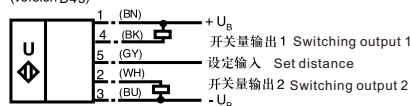
标准符号/连接:
(version D4, npn)



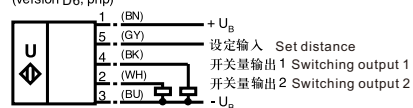
标准符号/连接:
(version D5, pnp)



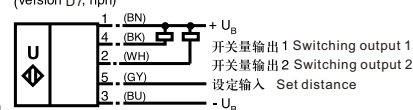
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GS30-DI-H5	UBX200-GS30-DU-H5	UBX200-GS30-DF-H5	UBX200-GS30-DJ-H5
		UBX200-GS30-DIU-H5		
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections


单位Unit:mm

<p>标准符号/连接: (version DI)</p>	<p>标准符号/连接: (version DU)</p>	<p>标准符号/连接: (version DF)</p>	<p>标准符号/连接: (version DJ)</p>
<p>标准符号/连接: (version DIU)</p>			

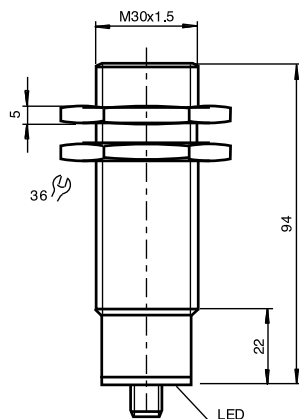
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GS30-DI4-H5	UBX200-GS30-DI5-H5	UBX200-GS30-DI4-H5	UBX200-GS30-DI5-H5
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA		DI5: PNP+4...20mA	
	DU4: NPN+0-10V		DU5: PNP+0-10V	
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protetion level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate				

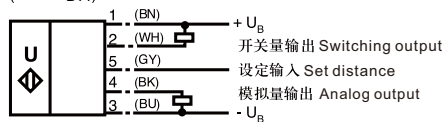
产品外形尺寸 Drawing



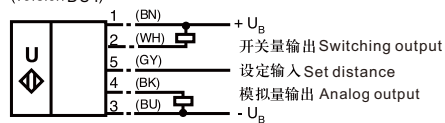
电气连接 Electrical connections

单位Unit:mm

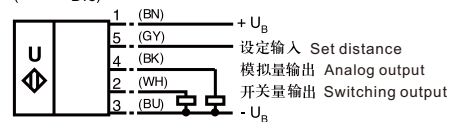
标准符号/连接:
(version DI4)



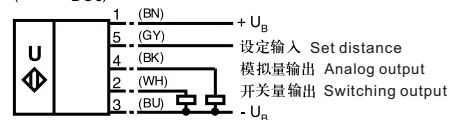
标准符号/连接:
(version DU4)



标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GS30-D4-H5	UBX400-GS30-D5-H5	UBX400-GS30-D6-H5	UBX400-GS30-D7-H5
		UBX200-GS30-D45-H5		
检测范围 Detection range	200...4000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
开关频率 Switching frequency	≤3Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EHC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version D4, npn)

1 . (BN)	+	U _B
4 . (BK)	□	开关量输出 Switching output
2 . (WH)	—	设定输入 Set distance
5 . (GY)	—	同步 Synchronization
3 . (BU)	—	- U _B

标准符号/连接: (version D5, pnp)

1 . (BN)	+	U _B
2 . (WH)	—	设定输入 Set distance
5 . (GY)	—	同步 Synchronization
4 . (BK)	□	开关量输出 Switching output
3 . (BU)	—	- U _B

标准符号/连接: (version D45)

1 . (BN)	+	U _B
4 . (BK)	□	开关量输出 1 Switching output 1
5 . (GY)	—	设定输入 Set distance
2 . (WH)	—	开关量输出 2 Switching output 2
3 . (BU)	—	- U _B

标准符号/连接: (version D6, pnp)

1 . (BN)	+	U _B
5 . (GY)	—	设定输入 Set distance
4 . (BK)	□	开关量输出 1 Switching output 1
2 . (WH)	—	开关量输出 2 Switching output 2
3 . (BU)	—	- U _B

标准符号/连接: (version D7, npn)


1 . (BN)	+	U _B
4 . (BK)	□	开关量输出 1 Switching output 1
2 . (WH)	—	开关量输出 2 Switching output 2
5 . (GY)	—	设定输入 Set distance
3 . (BU)	—	- U _B

超声波传感器

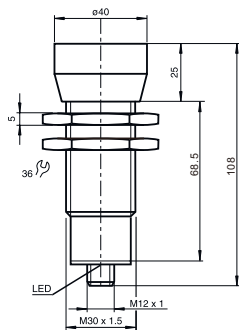
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX400-GS30-DI-H5	UBX400-GS30-DU-H5	UBX400-GS30-DF-H5	UBX400-GS30-DJ-H5
		UBX400-GS30-DIU-H5		
检测范围 Detection range	200...4000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protetion level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate				

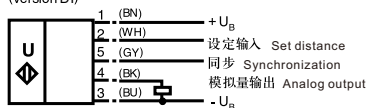
产品外形尺寸 Drawing



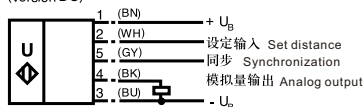
电气连接 Electrical connections

单位Unit:mm

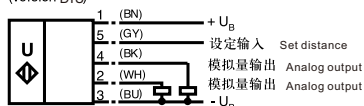
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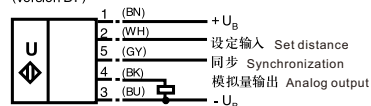
标准符号/连接:
(version DU)



标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX200-GS30-DI4-H5	UBX200-GS30-DI5-H5	UBX200-GS30-DI4-H5	UBX200-GS30-DI5-H5
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

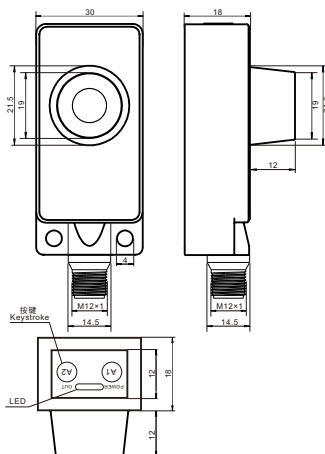
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F36-D4-H5	UCX50-F36-D6-H5	UCX100-F36-D4-H5	UCX100-F36-D6-H5
	UCX50-F36-D5-H5	UCX50-F36-D7-H5	UCX100-F36-D5-H5	UCX100-F36-D7-H5
	UCX50-F36-D45-H5		UBX100-F36-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤10Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

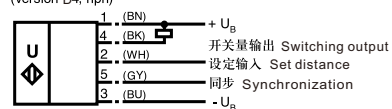


电气连接

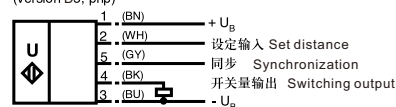
Electrical connections

单位Unit:mm

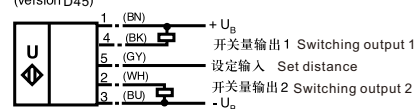
标准符号/连接:
(version D4, npn)



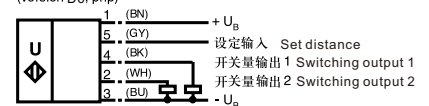
标准符号/连接:
(version D5, pnp)



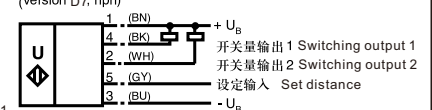
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F36-DI-H5	UCX50-F36-DF-H5	UCX100-F36-DI-H5	UCX100-F36-DF-H5
	UCX50-F36-DU-H5	UCX50-F36-DJ-H5	UCX100-F36-DU-H5	UCX100-F36-DJ-H5
	UCX50-F36-DIU-H5		UCX100-F36-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DU)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DF)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DJ)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DIU)

1 (BN)	— + U _B
5 (GY)	— 设定输入 Set distance
4 (BK)	— 模拟量输出 Analog output
2 (WH)	— 模拟量输出 Analog output
3 (BU)	— - U _B

超声波传感器

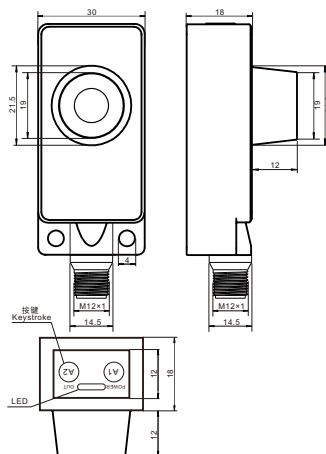
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-F36-DI4-H5	UBX50-F36-DI5-H5	UBX100-F36-DI4-H5	UBX100-F36-DI5-H5
	UBX50-F36-DU5-H5	UBX50-F36-DU5-H5	UBX100-F36-DU5-H5	UBX100-F36-DU5-H5
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

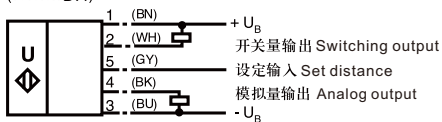


电气连接

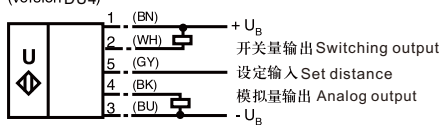
Electrical connections

单位Unit:mm

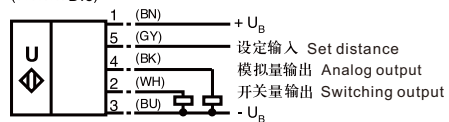
标准符号/连接:
(version DI4)



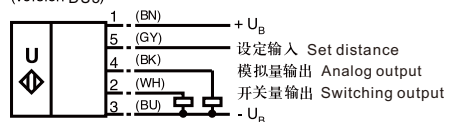
标准符号/连接:
(version DU4)



标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F36-D4-H5	UCX200-F36-D5-H5	UCX200-F36-D6-H5	UCX200-F36-D7-H5
		UCX200-F36-D45-H5		
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...100mm			
换能器频率 Transducer frequency	约180KHz Approx. 180KHz			
响应时间 Response time	约150ms Approx. 150ms			
开关频率 Switching frequency	≤3Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

1 (BN) + U_B
4 (BK) 开关量输出 Switching output
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
3 (BU) - U_B

标准符号/连接:
(version D6, pnp)

1 (BN) + U_B
5 (GY) 设定输入 Set distance
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

标准符号/连接:
(version D5, pnp)

1 (BN) + U_B
2 (WH) 设定输入 Set distance
5 (GY) 同步 Synchronization
4 (BK) 开关量输出 Switching output
3 (BU) - U_B

标准符号/连接:
(version D7, npn)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
2 (WH) 开关量输出 2 Switching output 2
5 (GY) 设定输入 Set distance
3 (BU) - U_B

标准符号/连接:
(version D45)

1 (BN) + U_B
4 (BK) 开关量输出 1 Switching output 1
5 (GY) 设定输入 Set distance
2 (WH) 开关量输出 2 Switching output 2
3 (BU) - U_B

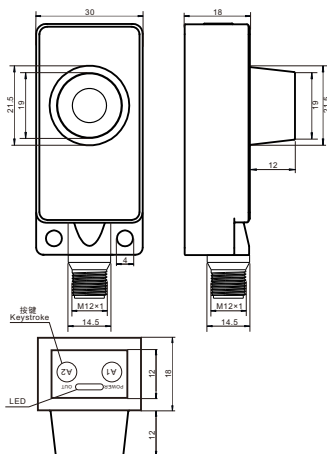
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F36-DI-H5	UCX200-F36-DU-H5	UCX200-F36-DF-H5	UCX200-F36-DJ-H5
	UCX200-F36-DIU-H5			
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ERI			

产品外形尺寸 Drawing

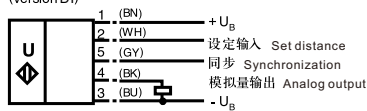


电气连接

Electrical connections

单位Unit:mm

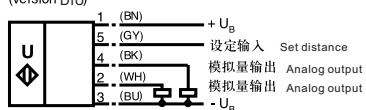
标准符号/连接:
(version DI)



标准符号/连接:
(version DU)



标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F36-DI4-H5	UCX200-F36-DI5-H5	UCX200-F36-DI4-H5	UCX200-F36-DI5-H5
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程 The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	Ip65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)

标准符号/连接:
(version DU5)

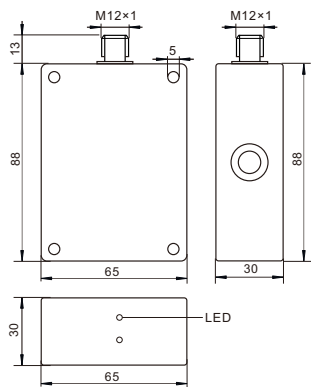
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-Q30-D4-H5	UCX50-Q30-D6-H5	UCX100-Q30-D4-H5	UCX100-Q30-D6-H5
	UCX50-Q30-D5-H5	UCX50-Q30-D7-H5	UCX100-Q30-D5-H5	UCX100-Q30-D7-H5
	UCX50-Q30-D45-H5		UBX100-Q30-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤10Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

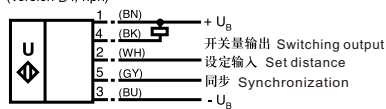
产品外形尺寸 Drawing



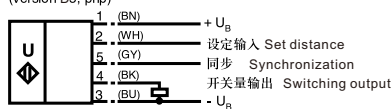
电气连接 Electrical connections

单位Unit:mm

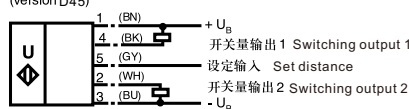
标准符号/连接:
(version D4, npn)



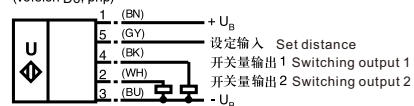
标准符号/连接:
(version D5, pnp)



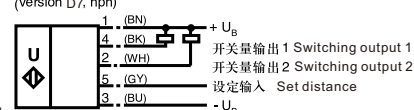
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-Q30-DI-H5	UCX50-Q30-DF-H5	UCX100-Q30-DI-H5	UCX100-Q30-DF-H5
	UCX50-Q30-DU-H5	UCX50-Q30-DJ-H5	UCX100-Q30-DU-H5	UCX100-Q30-DJ-H5
	UCX50-Q30-DIU-H5		UCX100-Q30-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS ENEC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DU)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DIU)

1 (BN)	— + U _B
5 (GY)	— 设定输入 Set distance
4 (BK)	— 模拟量输出 Analog output
2 (WH)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DF)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

标准符号/连接: (version DJ)

1 (BN)	— + U _B
2 (WH)	— 设定输入 Set distance
5 (GY)	— 同步 Synchronization
4 (BK)	— 模拟量输出 Analog output
3 (BU)	— - U _B

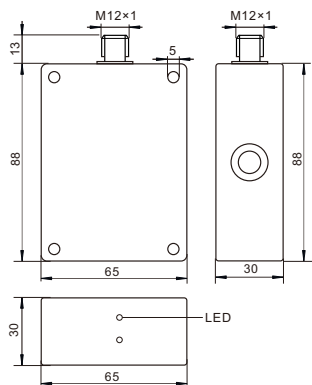
超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UBX50-Q30-DI4-H5	UBX50-Q30-DI5-H5	UBX100-Q30-DI4-H5	UBX100-Q30-DI5-H5
	UBX50-Q30-DU5-H5	UBX50-Q30-DU5-H5	UBX100-Q30-DU5-H5	UBX100-Q30-DU5-H5
检测范围 Detection range	50..500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

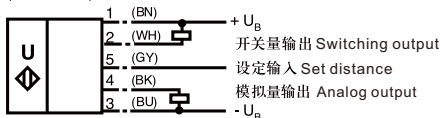
产品外形尺寸 Drawing



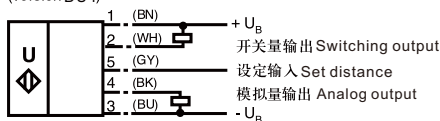
电气连接 Electrical connections

单位Unit:mm

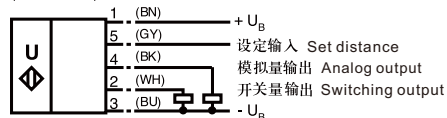
标准符号/连接:
(version DI4)



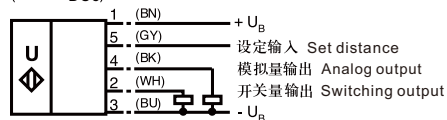
标准符号/连接:
(version DU4)



标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F65-D4-H5	UCX50-F65-D6-H5	UCX100-F65-D4-H5	UCX100-F65-D6-H5
	UCX50-F65-D5-H5	UCX50-F65-D7-H5	UCX100-F65-D5-H5	UCX100-F65-D7-H5
	UCX50-F65-D45-H5		UBX100-F65-D45-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
开关频率 Switching frequency	≤10Hz		≤3Hz	
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version D4, npn)

标准符号/连接:
(version D5, pnp)

标准符号/连接:
(version D45)

标准符号/连接:
(version D6, pnp)

标准符号/连接:
(version D7, npn)

超声波传感器

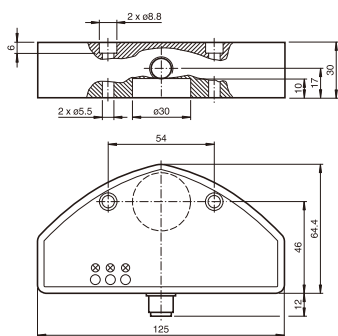
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F65-DI-H5	UCX50-F65-DF-H5	UCX100-F65-DI-H5	UCX100-F65-DF-H5
	UCX50-F65-DU-H5	UCX50-F65-DJ-H5	UCX100-F65-DU-H5	UCX100-F65-DJ-H5
	UCX50-F65-DIU-H5		UCX100-F65-DIU-H5	
检测范围 Detection range	50..500mm		70...1000mm	
盲区 Dead band	0...50mm		0...70mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设置状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

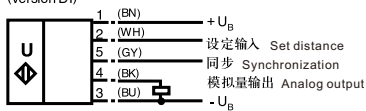


电气连接

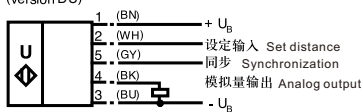
Electrical connections

单位Unit:mm

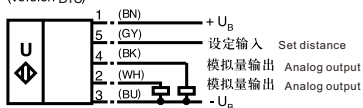
标准符号/连接:
(version DI)



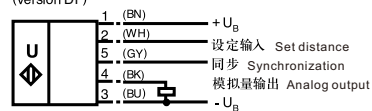
标准符号/连接:
(version DU)



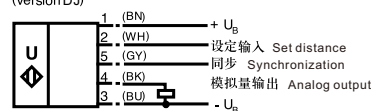
标准符号/连接:
(version DIU)



标准符号/连接:
(version DF)



标准符号/连接:
(version DJ)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX50-F65-DI4-H5	UCX50-F65-DI5-H5	UCX100-F65-DI4-H5	UCX100-F65-DI5-H5
	UCX50-F65-DU5-H5	UCX50-F65-DU5-H5	UCX100-F65-DU5-H5	UCX100-F65-DU5-H5
检测范围 Detection range	50...500mm		100...2000mm	
盲区 Dead band	0...50mm		0...100mm	
换能器频率 Transducer frequency	约380KHz Approx.380KHz		约205KHz Approx.205KHz	
响应时间 Response time	约50ms Approx.50ms		约125ms Approx.125ms	
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA DI5: PNP+4...20mA			
	DU4: NPN+0-10V DU5: PNP+0-10V			
空载电流 No-load current	≤55mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.1%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate	FC CE CCC RoHS EAC			

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接:
(version DI4)

标准符号/连接:
(version DI5)

标准符号/连接:
(version DU4)


标准符号/连接:
(version DU5)

超声波传感器

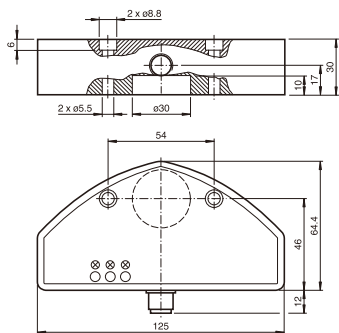
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F65-D4-H5	UCX200-F65-D5-H5	UCX200-F65-D6-H5	UCX200-F65-D7-H5
		UCX200-F36-D45-H5		
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...100mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
开关频率 Switching frequency	≤3Hz			
输出类型 Output type	D4: NPN NO/NC D5: PNP NO/NC D6: 2×PNP NO/NC D7: 2×NPN NO/NC D45: NPN+PNP NO/NC			
额定工作电流 Rated operating current	200mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

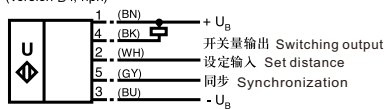


电气连接

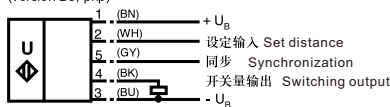
Electrical connections

单位Unit:mm

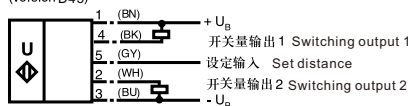
标准符号/连接:
(version D4, npn)



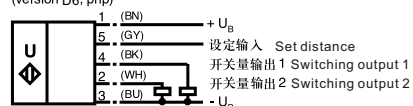
标准符号/连接:
(version D5, pnp)



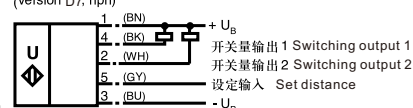
标准符号/连接:
(version D45)



标准符号/连接:
(version D6, pnp)



标准符号/连接:
(version D7, npn)



超声波传感器 Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F65-DI-H5	UCX200-F65-DU-H5	UCX200-F65-DF-H5	UCX200-F65-DJ-H5
		UCX200-F65-DIU-H5		
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI: 4...20mA	DU: 0-10V	DF: 0...20mA	DJ: 0-5V DIU: 4-20mA+0-10V
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过调节线调节最远、最近量程 Adjust the farthest and closest range by adjusting the line			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示闪烁 设定状态下检测到目标物 Switch status indication flashes Target detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Solid red light: Error Flashing red light: No target detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

电气连接 Electrical connections

单位Unit:mm

标准符号/连接: (version DI)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DU)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DF)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DJ)

1. (BN)	+ U _B
2. (WH)	设定输入 Set distance
5. (GY)	同步 Synchronization
4. (BK)	模拟量输出 Analog output
3. (BU)	- U _B

标准符号/连接: (version DIU)


1. (BN)	+ U _B
5. (GY)	设定输入 Set distance
4. (BK)	模拟量输出 Analog output
2. (WH)	模拟量输出 Analog output
3. (BU)	- U _B

超声波传感器

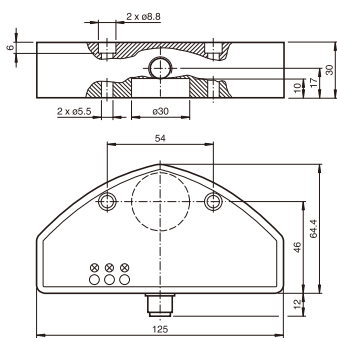
Ultrasonic Sensor



技术参数 Technical parameters

产品型号 Product model	UCX200-F65-DI4-H5	UCX200-F65-DI5-H5	UCX200-F65-DI4-H5	UCX200-F65-DI5-H5
检测范围 Detection range	100...2000mm			
盲区 Dead band	0...200mm			
换能器频率 Transducer frequency	约180KHz Approx.180KHz			
响应时间 Response time	约150ms Approx.150ms			
标准目标板 Standard target plates	100mm×100mm			
输出类型 Output type	DI4: NPN+4...20mA		DI5: PNP+4...20mA	
	DU4: NPN+0-10V		DU5: PNP+0-10V	
空载电流 No-load current	≤50mA			
电源电压 Supply voltage	10-30VDC 纹波10% 10-30VDC ripple 10%			
重复精度 Repetitive accuracy	≤0.5%			
量程调节 Range adjustment	通过按钮调节最远、最近量程The farthest and closest range can be adjusted by pushing a button			
防护等级 Protection level	IP65			
连接方式 Connection type	H5 (5针) M12连接线/2mPVC电缆 H5 (5-pin) M12 connecting wire/2m PVC cable			
LED绿灯 LED green light	常亮: 通电 闪烁: 设定状态下检测到目标物 Solid: Power on Flashing: The target is detected in the set state			
LED黄灯 LED yellow light	开关状态指示黄灯闪烁 设定状态下检测到目标物 The switch status indicator yellow light is flashing, and the target object is detected in the set state			
LED红灯 LED red light	红灯常亮: 出错 红灯闪烁: 设定状态下未检测到目标物 Red light always on: error red light flashing: no target object detected in the set state			
产品认证 Certificate				

产品外形尺寸 Drawing

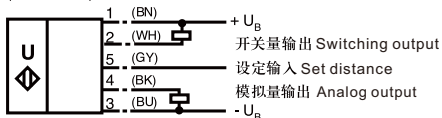


电气连接

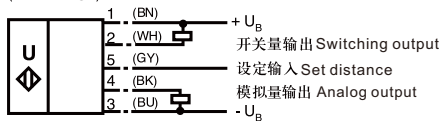
Electrical connections

单位Unit:mm

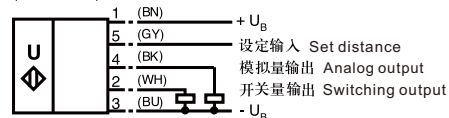
标准符号/连接:
(version DI4)



标准符号/连接:
(version DU4)



标准符号/连接:
(version DI5)



标准符号/连接:
(version DU5)

