

\*\*\* SPARE PART\*\*\* SIMATIC S7, DIGITAL INPUT SM 326, 8 DI; DC 24V, NAMUR, FAILSAFE NAMUR INPUTS FOR SIMATIC S7F SYSTEMS, UP TO CATEGORY 4 (EN954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1 X 40 PIN



Figure similar

Supply voltage	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	90 mA
Encoder supply	
Number of outputs	8
Type of output voltage	8.2 V DC
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8; 8 (one-channel); 4 (two-channel)
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	8; vertical setup
— up to 60 °C, max.	8; horizontal set up

<b>Input voltage</b>	
• Type of input voltage	DC
• Rated value (DC)	in accordance with DIN 19234 or NAMUR
<b>Input current</b>	
• for signal "0", max. (permissible quiescent current)	0.35 to 1.2 mA
• for signal "1", typ.	2.1 to 7 mA
<b>Input delay (for rated value of input voltage)</b>	
for NAMUR inputs	
— at "0" to "1", max.	1.2 to 3 ms
— at "1" to "0", max.	1.2 to 3 ms
<b>Cable length</b>	
• shielded, max.	200 m
• unshielded, max.	100 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
• Diagnostic alarm	Yes
<b>Diagnostic messages</b>	
• Diagnostic information readable	Yes
<b>Diagnostics indication LED</b>	
• Fail-safe operation	Yes
• Group error SF (red)	Yes
<b>Ex(i) characteristics</b>	
Module for Ex(i) protection	Yes
<b>Maximum values of input circuits (per channel)</b>	
• Co (permissible external capacity), max.	3 µF
• Io (short-circuit current), max.	13.9 mA
• Lo (permissible external inductivity), max.	80 mH
• Po (power of load), max.	33.1 mW
• Uo (output no-load voltage), max.	10 V
• Um (fault voltage), max.	60 V DC/30 V AC
• Ta (permissible ambient temperature), max.	60 °C
<b>Potential separation</b>	
<b>Potential separation digital inputs</b>	
• between the channels	Yes
• between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	Yes
<b>Isolation</b>	
Isolation tested with	500 V DC
tested with	

- |  |                   |
|--|-------------------|
| • Channels against backplane bus and load voltage L+ | 1500 V AC         |
| • Channels among one another                         | 1500 V AC         |
| • Load voltage L+ against backplane bus              | 500 V DC/350 V AC |

### Standards, approvals, certificates

#### Highest safety class achievable in safety mode

- |                         |  |
|-------------------------|--|
| • acc. to DIN VDE 0801  | AK 4 (one channel), AK 5 und 6 (two channel) |
| • acc. to EN 954        | 4  |
| • SIL acc. to IEC 61508 | SIL 2 (single-channel), SIL 3 (two-channel)  |

#### Use in hazardous areas

- |                    |                |
|--------------------|----------------|
| • Test number KEMA | 99 ATEX 2671 X |
|--------------------|----------------|

### Connection method

required front connector	40-pin
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### Dimensions

Width	80 mm
Height	125 mm
Depth	120 mm

### Weights

Weight, approx.	482 g
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**last modified:** 03/24/2017 