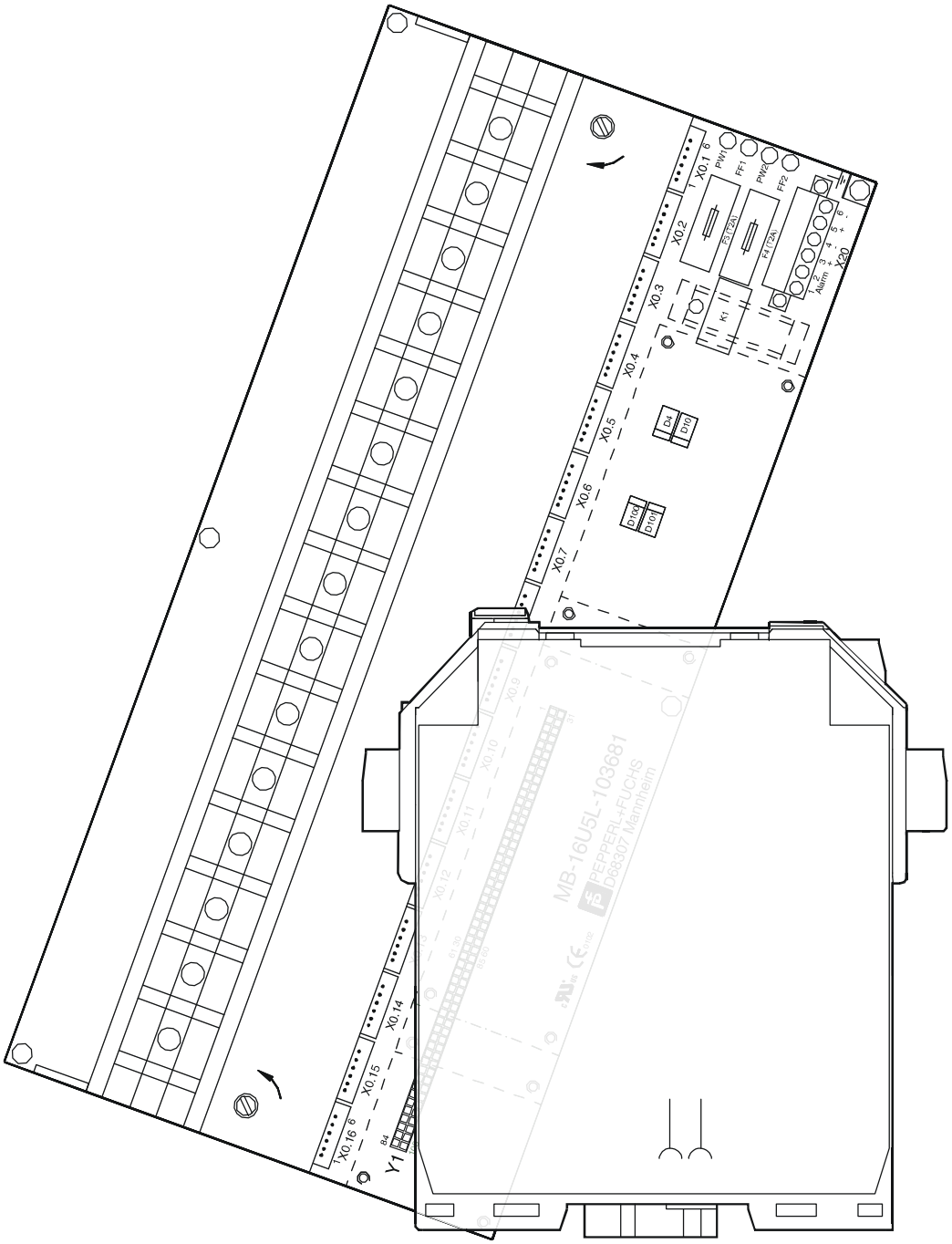
PROCESS AUTOMATION

HAZ-RTP adapted to

Honeywell 1756 Rack IO Modules



PEPPERL+FUCHS

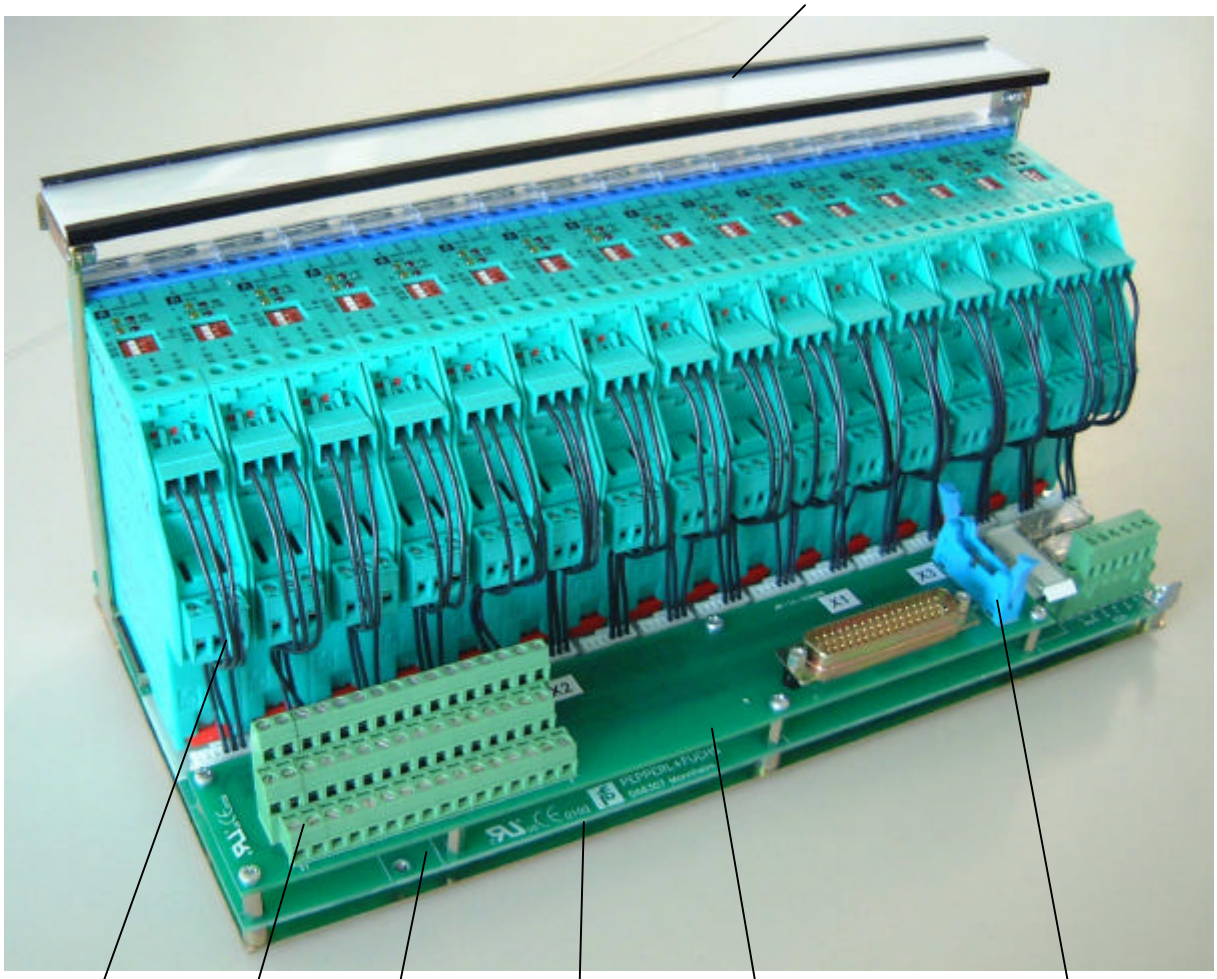
Hazardous Area Remote Termination Panels With Galvanic Isolators

Honeywell 1756 Rack IO Modules • I/O card number • Signal type	**P+F Motherboard** • Order name • Part No. • Drawing No.	**Description** • Module • Motherboard • Dimensions
TC/TK-HAO081 (8 AO)	• HAZ-RTP-HAO081-132002 • Part No. 132002 • Drawing No. 36-7632_	Module: • type KFD2-SCD2-Ex1.LK, single channel, (AO) Motherboard: • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector Dimensions (wxhxd): • 165x150x150 mm

The **HAZ**ardous Area **R**emote **T**ermination **P**anel (HAZ-RTP…) is designed for 16 or 8 KF-modules. Power feed and system connector to Honeywell 1756 Rack IO Modules are integrated in the motherboard, which results in noticeable space savings the interface cabinet. The power source has a redundant design, increasing the reliability of the system. The operating status of the power supply is monitored and reported via LEDs and relay output. (Dry contact)

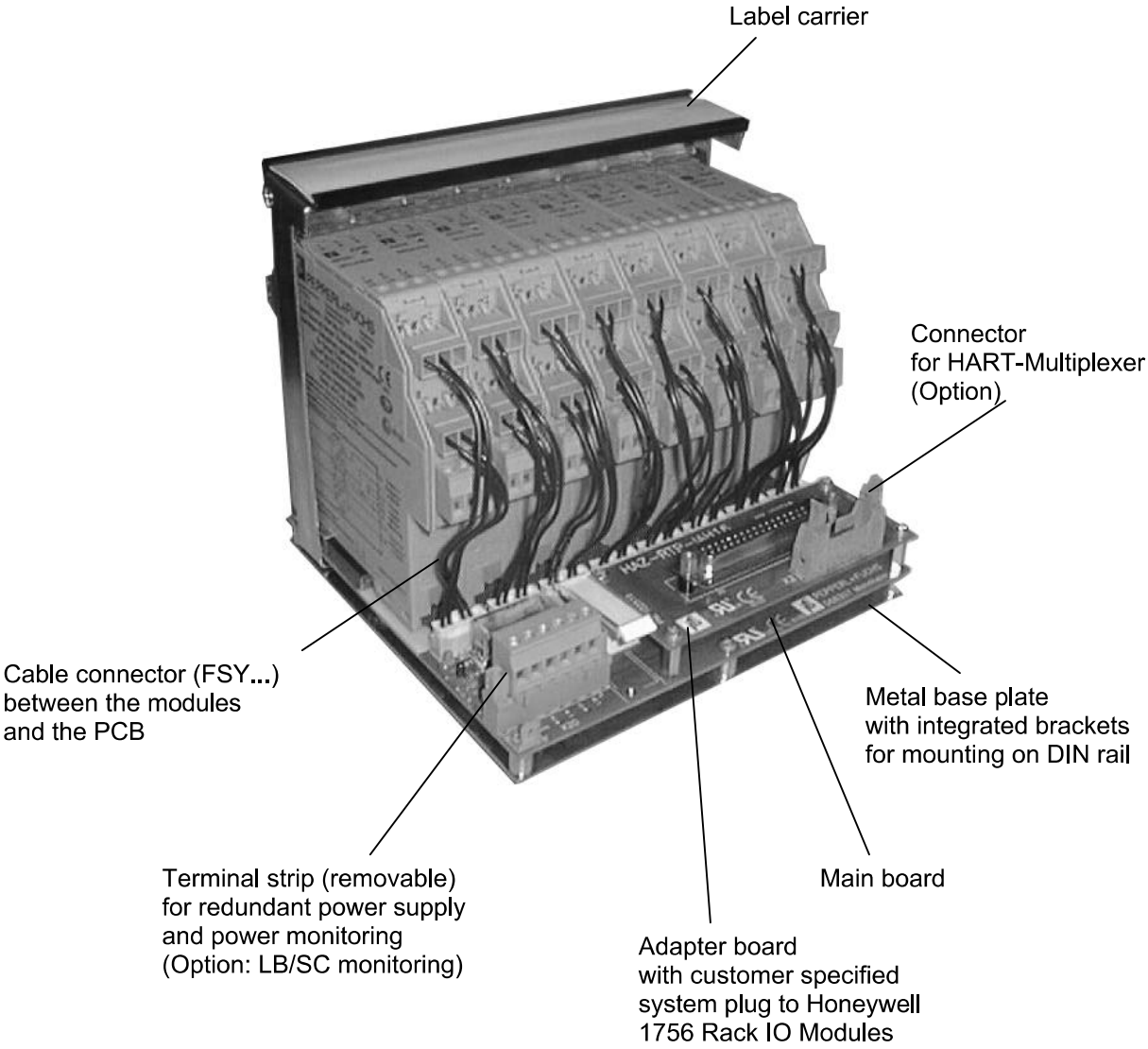
The KF modules are interfaced to the motherboard himself by using 2- to 6- pin coded cable connectors (FSY…). The motherboard configuration is mounted on a stable metal plate. There are two retainers on the back for mounting the board quickly and easily to a standard DIN rail in accordance with EN 50022.

1. Model with 16 modules



		22.08.02					
		Datum	S	TD	Off. In ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	**HAZ-RTP…(Motherboard) General Description**	Dept.: PA-VP			No. Word		
		Up date: B: Sb/Bro 26.03.04			Replaces : Xxxxx / 36-xxxx		Sheet 1
					Scale:		from 1

2. Model with 8 Modules

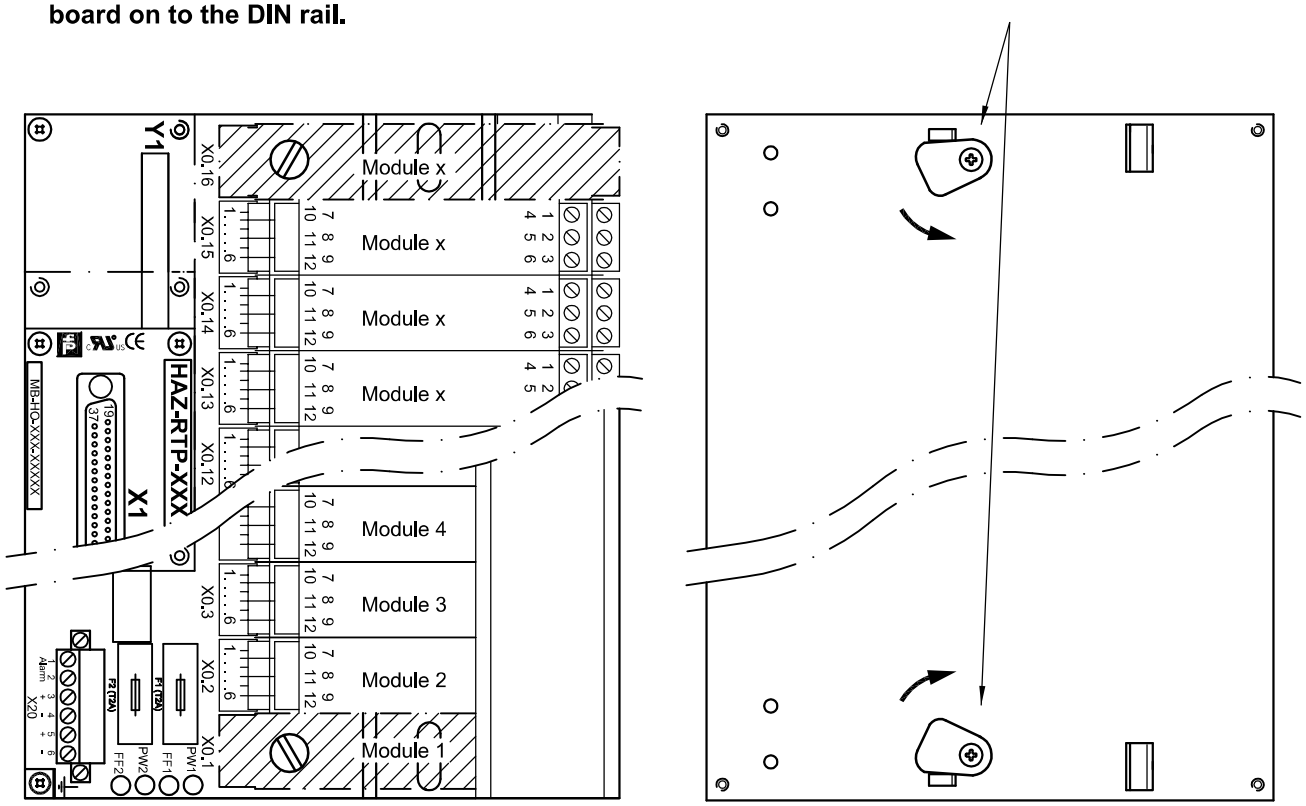


		24.10.00					
		Datum	S	TD	Off. In ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	**HAZ-RTP…(Motherboard) General Description**	Dept.: PA-VP			No. Word		
		Up date: B: Sb/Bro 26.03.04			Replaces : Xxxxx / 36-xxxx		Sheet 1
					Scale:		from 1

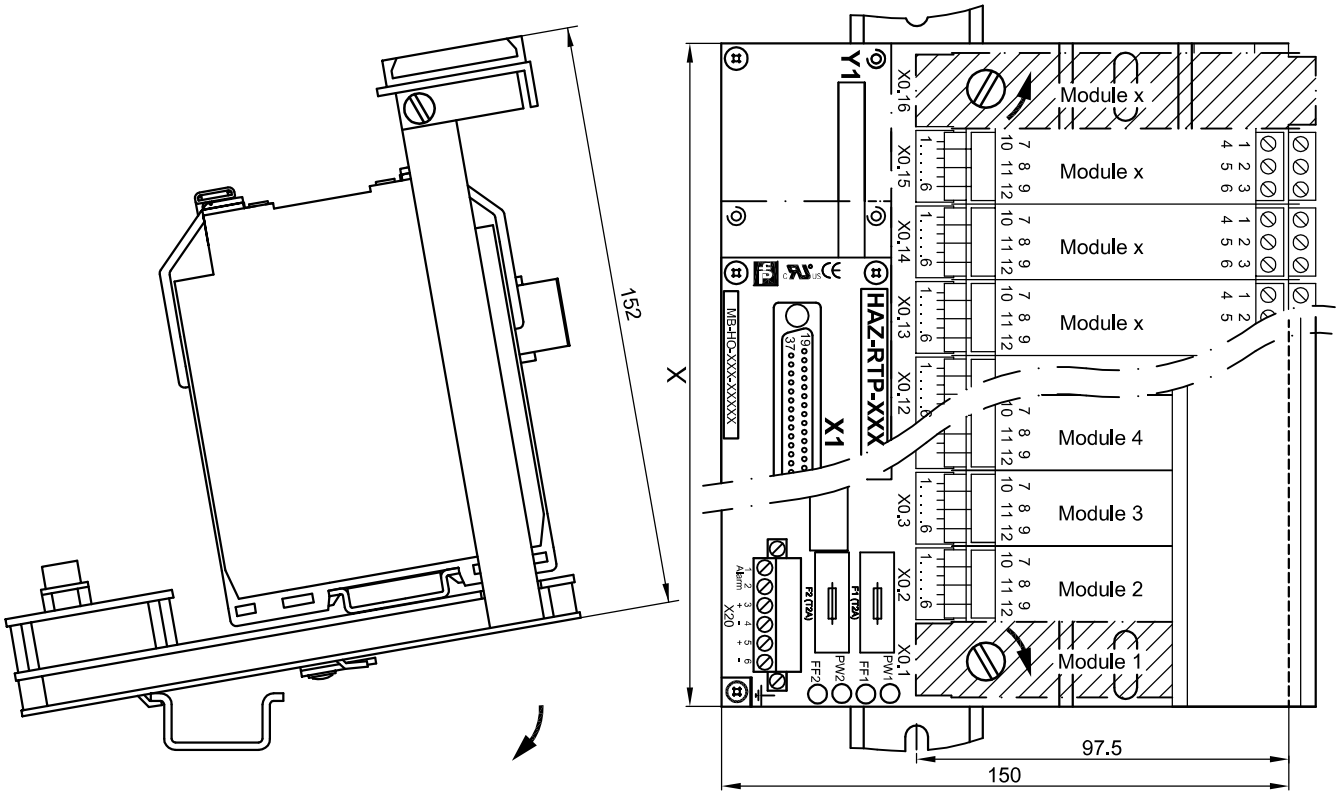
Installations instructions

1. Take away first and last module. Operate the screw to fix the board on to the DIN rail.

2. Turn the part as shown the stopper!

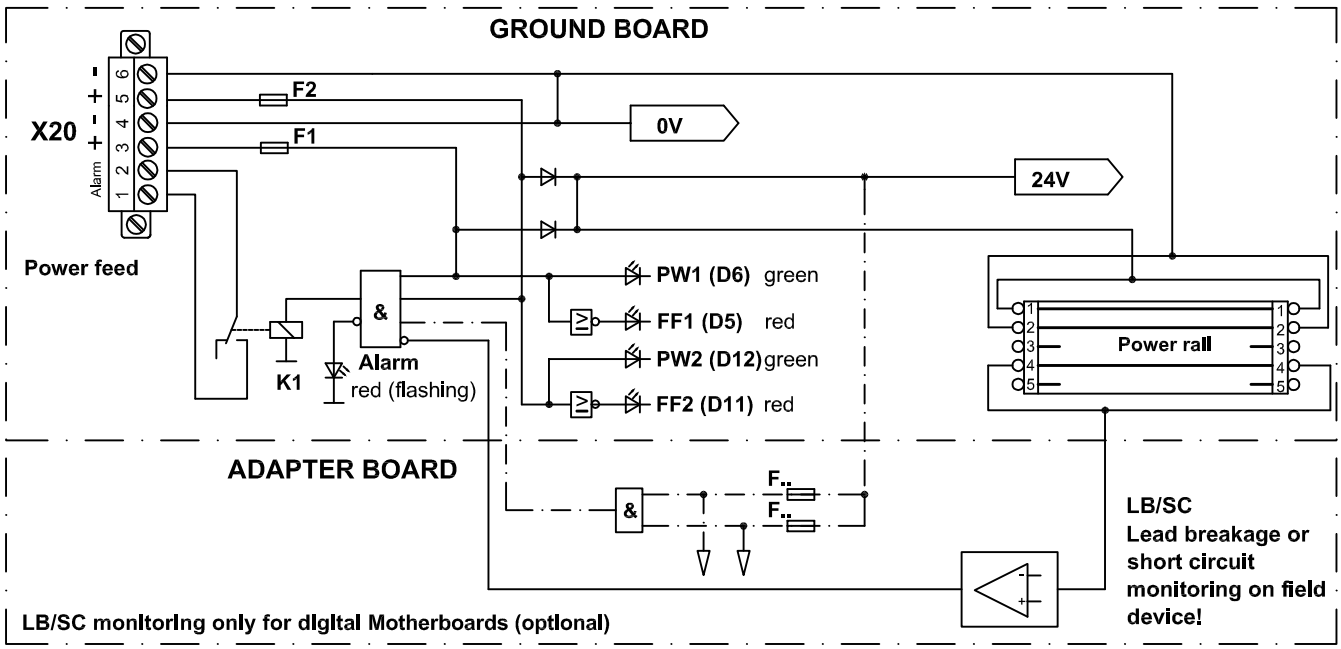


3. Set the board on the DIN rail. Turn the screw as shown till the board is fixed. (Arrows are showing direction how to turn for fixing the board)

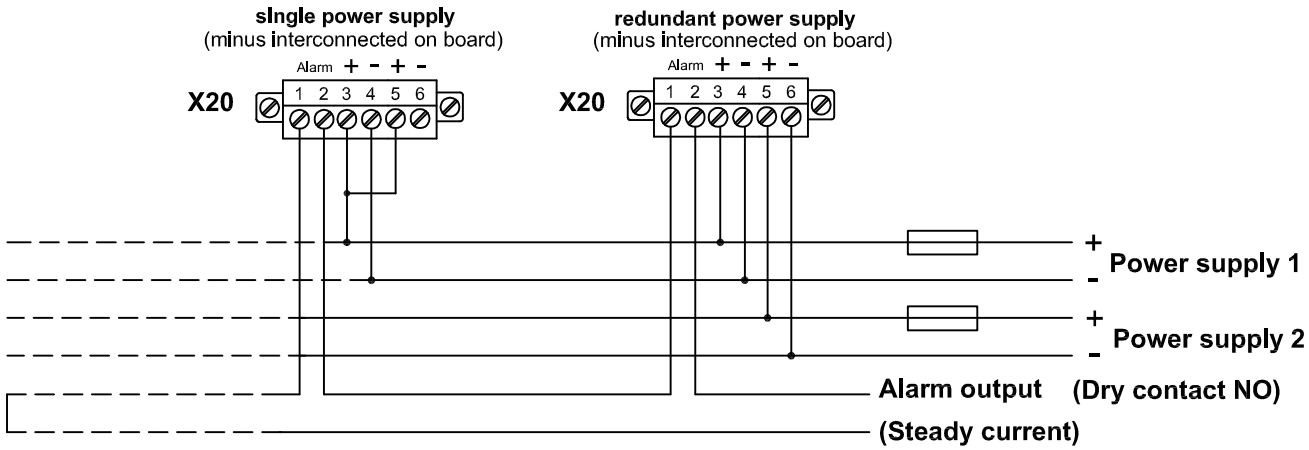


		14.02.00		DN	vB	Sb/vB	
		Date	S	TD	Off. in ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	Mounting instructions for HAZ-RTP...	Dept.: PA-VP			No. 36-9159A1		
		Up date: Sch/Bro 02.02.04			Replaces: xxxxxx / 36-xxxx		Sheet 1
					Scale: -		of 1

Block diagram power supply and error message



Connection power supply and error message



Error message and Alarm

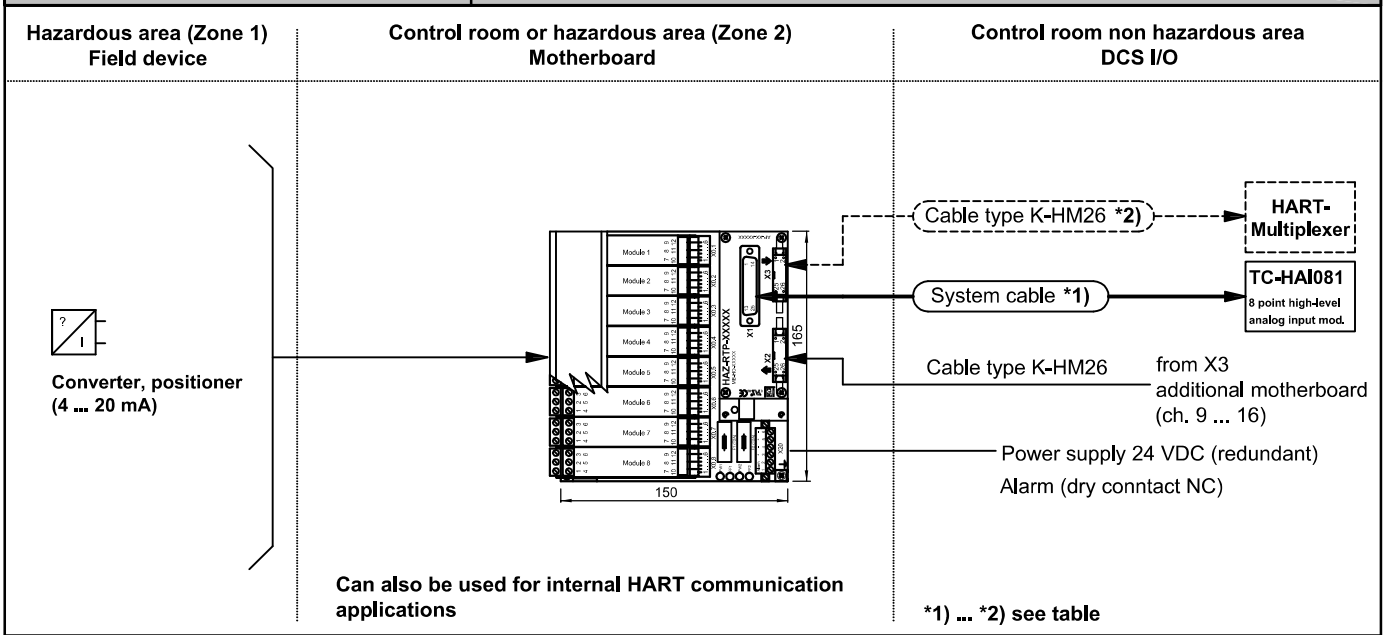
Power supply 1	Power supply 2	LED red	LED green	X20.1, 2 Alarm contact
PS **ON** and Fuse 1 **OK**	PS **ON** and Fuse 2 **OK**	D5 **OFF** D11 **OFF**	D6 **ON** D12 **ON**	contact **closed**
PS **ON** and Fuse 1 **OK**	PS **OFF**	D5 **OFF** D11 **ON**	D6 **ON** D12 **OFF**	contact **open**
PS **OFF**	PS **ON** and Fuse 2 **OK**	D5 **ON** D11 **OFF**	D6 **OFF** D12 **ON**	contact **open**
PS **ON** and Fuse 1 **OK**	PS **ON** and Fuse 2 **broken**	D5 **OFF** D11 **ON**	D6 **ON** D12 **OFF**	contact **open**
PS **ON** and Fuse 1 **broken**	PS **ON** and Fuse 2 **OK**	D5 **ON** D11 **OFF**	D6 **OFF** D12 **ON**	contact **open**
PS **ON** and Fuse 1 **broken**	PS **ON** and Fuse 2 **broken**	D5 **OFF** D11 **OFF**	D6 **OFF** D12 **OFF**	contact **open**
PS **OFF**	PS **OFF**	D5 **OFF** D11 **OFF**	D6 **OFF** D12 **OFF**	contact **open**
In case of LB/SC				contact **open**

		04.04.01		vB	Sb	vB/Sb	
		Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	Block diagram Power supply monitoring Error message LB/SC **MOTHERBOARD MB-4/8/12/16**	Dept.: PA-PG-IF			Nr. **36-7143F1**		
		Up date: DG 21.04.2010			Replaces: xxxxxxx/ 36-xxxx		Sheet 1
		xxxxx			Scale: x : x		of 1

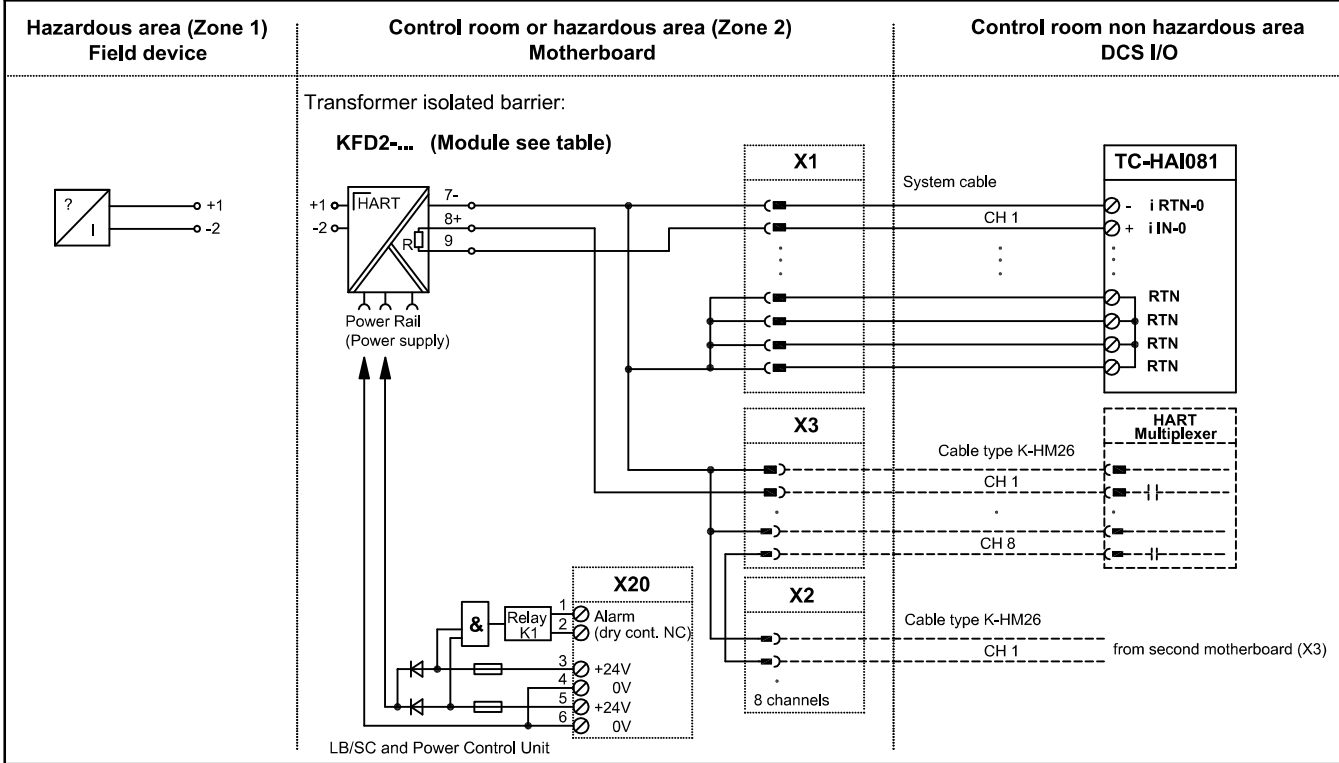
Honeywell

1756 Rack IO Modules

TC/TK-HAO081 AO current 4 ... 20 mA 8 ch.



LOOP-DIAGRAM (1-channel modules)



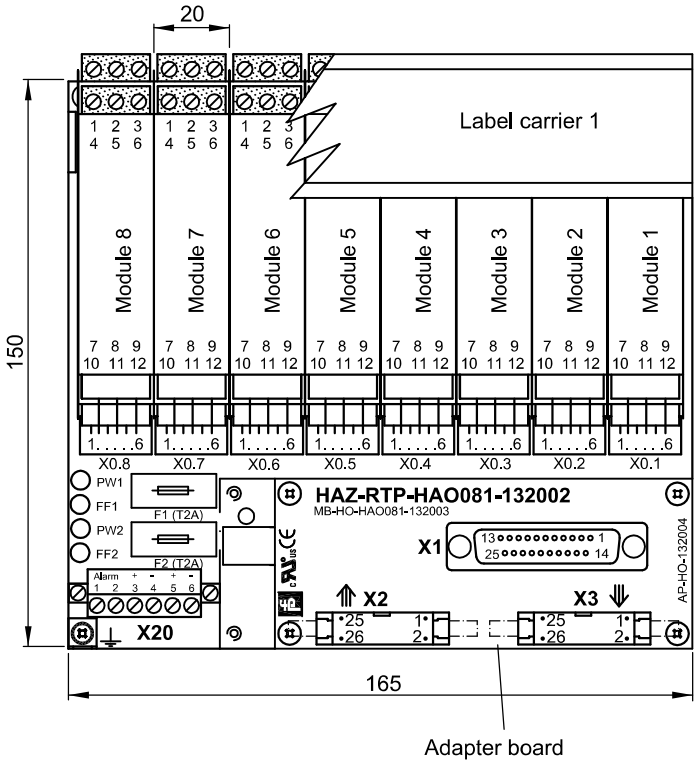
Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-HAO081-132002	AO, current	KFD2-SCD2-Ex1.LK	HAZ-25xMx	yes	

PEPPERL+FUCHS
Mannheim-Schönau

APPLICATION FOR

Honeywell
1756 Rack IO Modules

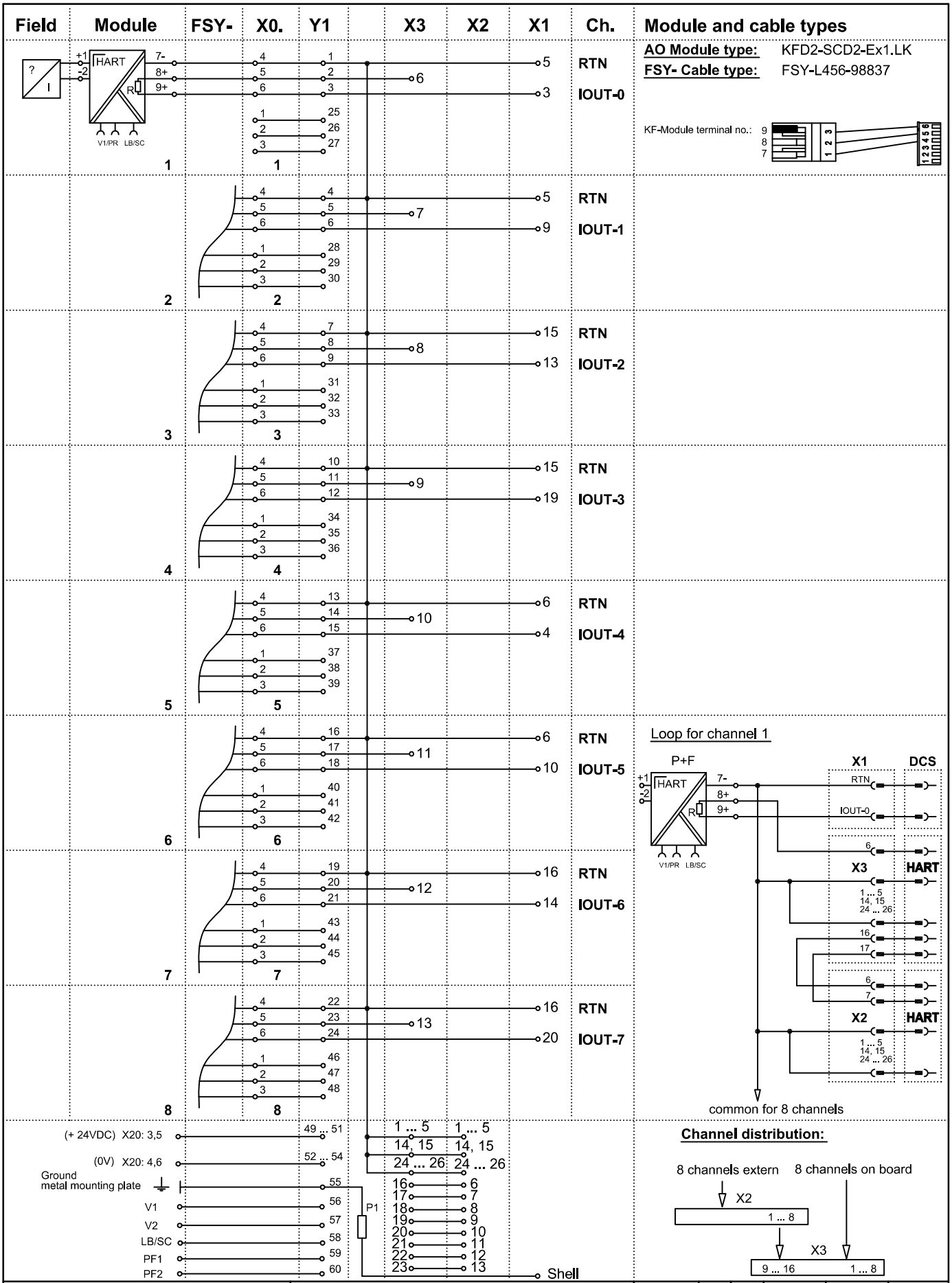
29.03.04		Bro	Sb.	Sb.		
Date	S	TD	Off. in ch.	contr. techn.	contr. Norm	
Dept.: PA - VP			No. 36-6032			
Up date: - : - xx.xx.xx			Replaces: xxxxxx / 36-xxxx		Sheet 1	
			Scale: 1 : 5		of 1	



Name	Note
X1	25 pin female system connector DSUB
X2, X3	26 pin HART connector male
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

Ordering information:	**HAZ-RTP-HAO081-132002**	
Basic components:		**Description**
8 pieces:	**KFD2-SCD2-Ex1.LK (AO)**	KF-Module type (function)
1 piece:	**MB-HO-HAO081-132003**	Motherboard without modules
composed by:		
1 piece:	MB-8U2-Y97680	Motherboard without modules, adapter board, FSY cable tree and Label carrier
1 piece:	AP-HO-132004	Adapter board
1 piece:	KFD0-LC1-8M-99143	Label carrier 1
8 pieces:	FSY-L456-98837	Cabel tree connection KF-Module-Motherboard

		26.03.04		Bro	Sb	Sb	
		Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Output + HART 8 channels **HAZ-RTP-HAO081-132002**	Dept.: PA-VP			Nr. **36-7632**		
		Up date: - : - xx.xx.xx			Replaces: xxxxxx / 36-xxxx		Sheet 1
		MB-8U2			Scale: 1 : 2		of 2



26.03.04		Bro	Sb	Sb	
Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm

PEPPERL+FUCHS
Mannheim-Schönau

Motherboard unit
Analog Output - HART
8 channels
HAZ-RTP-HAO081-132002

Dept.: PA-VP
Nr. **36-7632**
Up date: - : - xx.xx.xx
Replaces: xxxxxx/36-xxxx
Sheet 2
Scale: -
of 2