

PROCESS AUTOMATION

HAZ-RTP adapted to

Honeywell 1756 Rack IO Modules

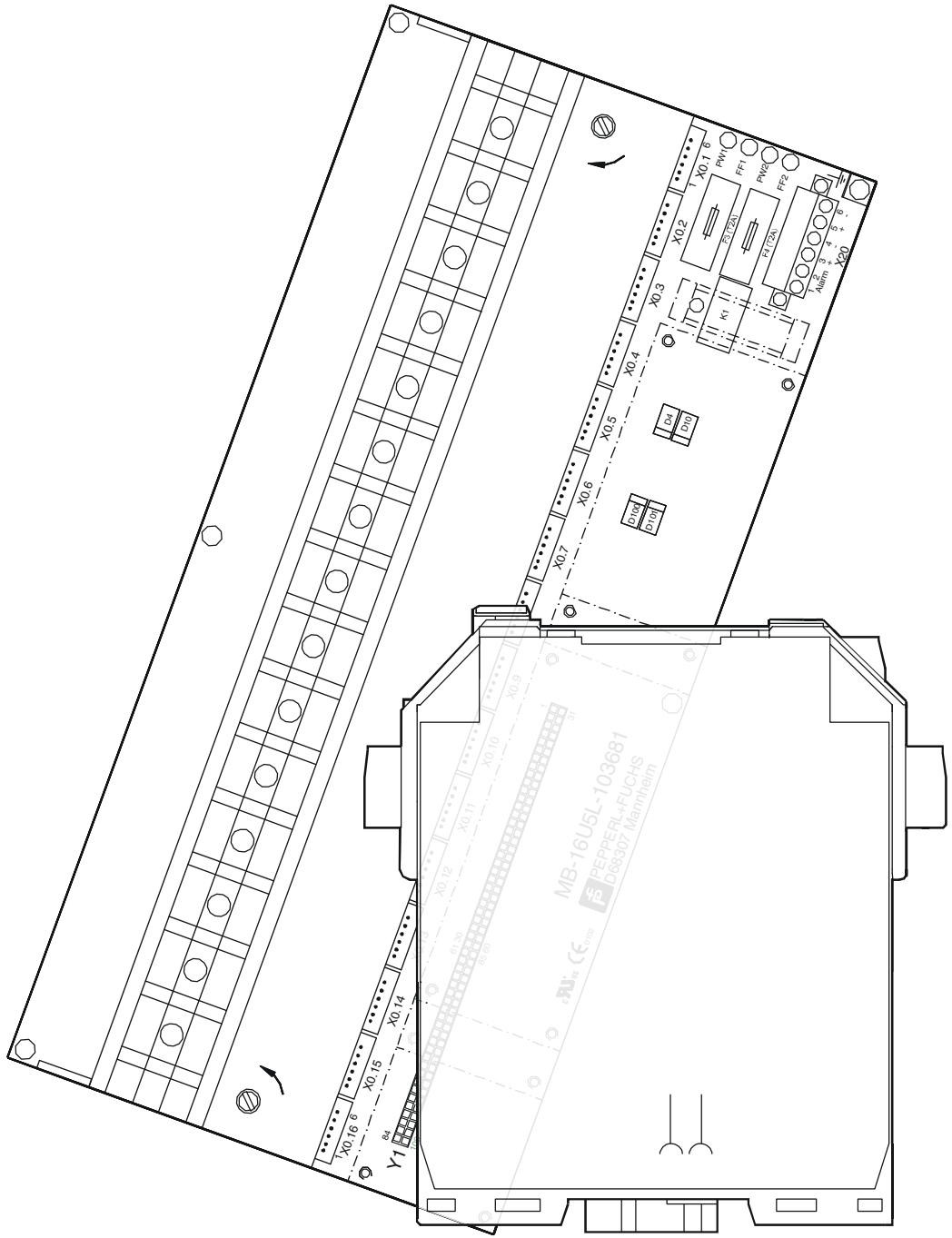


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1. General Description

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Hazardous Area Remote Termination Panels With Galvanic Isolators

Honeywell 1756 Rack IO Modules <ul style="list-style-type: none"> • I/O card number • Signal type 	P+F Motherboard <ul style="list-style-type: none"> • Order name • Part No. • Drawing No. 	Description <ul style="list-style-type: none"> • Module • Motherboard • Dimensions
TC/TK-IAH061 (6 AI)	<ul style="list-style-type: none"> • HAZ-RTP-IAH061-118251 • Part No. 118251 • Drawing No. 36-7459_ 	<u>Module:</u> • type KFD2-STC4-Ex1, single channel, (AI) <u>Motherboard:</u> • 6 modules (6 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-IAH161 (16 AI)	<ul style="list-style-type: none"> • HAZ-RTP-IAH161S-107755 • Part No. 107755 • Drawing No. 36-7282_ 	<u>Module:</u> • type KFD2-STC4-Ex1, single channel, (AI) <u>Motherboard:</u> • 16 modules (16 channels) • 1 D-SUB 37 pin, female system connector • 2 HART 26 pin, male connector <u>Dimensions (wxhxd) :</u> • 325x150x150 mm
	<ul style="list-style-type: none"> • HAZ-RTP-IAH161-123894 • Part No. 123894 • Drawing No. 36-7527_ 	<u>Module:</u> • type KFD2-UT-Ex1, single channel, (AI) <u>Motherboard:</u> • 16 modules (16 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 325x150x150 mm
	<ul style="list-style-type: none"> • HAZ-RTP-IAH161H-105268 • Part No. 105268 • Drawing No. 36-7220_ 	<u>Module:</u> • type KFD2-STC4-Ex2, dual channel, (AI) <u>Motherboard:</u> • 16 modules (32 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 325x150x150 mm
TC/TK-OAV081 (8 AO)	<ul style="list-style-type: none"> • HAZ-RTP-OAV081H-105269 • Part No. 105269 • Drawing No. 36-7223_ 	<u>Module:</u> • type KFD2-SCD-Ex1.LK, single channel, (AO) <u>Motherboard:</u> • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
	<ul style="list-style-type: none"> • HAZ-RTP-OAV081-105289 • Part No. 105289 • Drawing No. 36-7250_ 	<u>Module:</u> • type KFD2-CD-Ex1.32, single channel, (AO) <u>Motherboard:</u> • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-IDX161 (16 DI)	<ul style="list-style-type: none"> • HAZ-RTP-IDX161-105281 • Part No. 105281 • Drawing No. 36-7224_ 	<u>Module:</u> • type KFD2-SR2-Ex2.2S, dual channel, (DI) <u>Motherboard:</u> • 8 modules (16 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-IDD321 (32 DI)	<ul style="list-style-type: none"> • HAZ-RTP-IDD321-105270 • Part No. 105270 • Drawing No. 36-7226_ 	<u>Module:</u> • type KFD2-SRA-Ex4, four channel, (DI) <u>Motherboard:</u> • 4 modules (32 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-ODX121 (16 DO)	<ul style="list-style-type: none"> • HAZ-RTP-ODX121-118258 • Part No. 118258 • Drawing No. 36-7461_ 	<u>Module:</u> • type KFD2-SL2-Ex2.B, dual channel, (DO) <u>Motherboard:</u> • 8 modules (16 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-ODD321 (32 DO)	<ul style="list-style-type: none"> • HAZ-RTP-ODD321-105271 • Part No. 105271 • Drawing No. 36-7227_ 	<u>Module:</u> • type KFD2-SL2-Ex2.B, dual channel, (DO) <u>Motherboard:</u> • 8 modules (16 channels) • 1 D-SUB 37 pin, female system connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm
TC/TK-HAI081 (8 AI)	<ul style="list-style-type: none"> • HAZ-RTP-HAI081-127742 • Part No. 127742 • Drawing No. 36-7590_ 	<u>Module:</u> • type KFD2-STC4-Ex1, single channel, (AI) <u>Motherboard:</u> • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector <u>Dimensions (wxhxd) :</u> • 165x150x150 mm

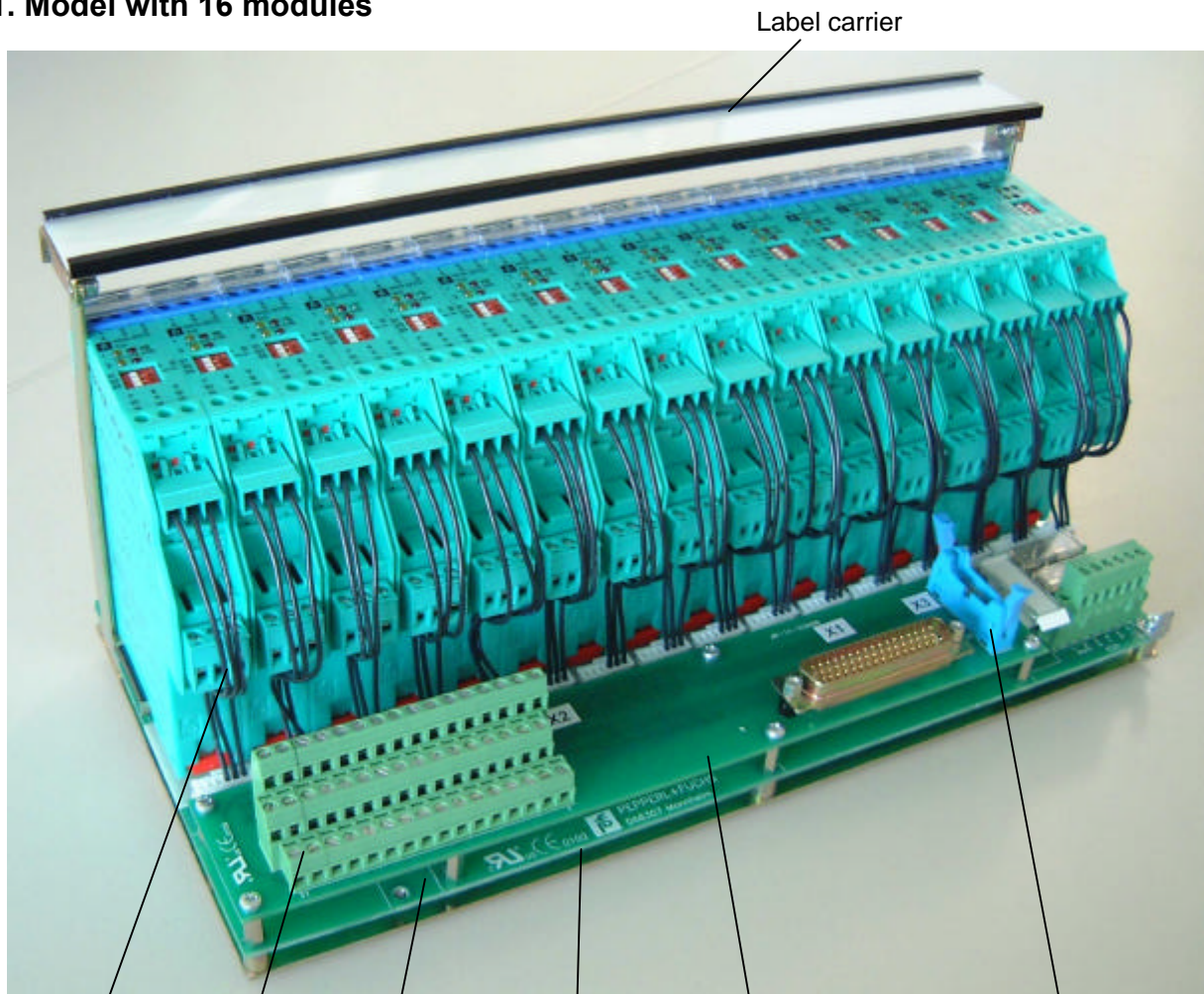
Hazardous Area Remote Termination Panels With Galvanic Isolators

Honeywell 1756 Rack IO Modules <ul style="list-style-type: none"> • I/O card number • Signal type 	P+F Motherboard <ul style="list-style-type: none"> • Order name • Part No. • Drawing No. 	Description <ul style="list-style-type: none"> • Module • Motherboard • Dimensions 		
TC/TK-HAO081 (8 AO)	<ul style="list-style-type: none"> • HAZ-RTP-HAO081-132002 • Part No. 132002 • Drawing No. 36-7632_ 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>Module:</u> <u>Motherboard:</u> Dimensions (wxhxd): </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> • type KFD2-SCD2-Ex1.LK, single channel, (AO) • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector • 165x150x150 mm </td> </tr> </table>	<u>Module:</u> <u>Motherboard:</u> Dimensions (wxhxd):	<ul style="list-style-type: none"> • type KFD2-SCD2-Ex1.LK, single channel, (AO) • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector • 165x150x150 mm
<u>Module:</u> <u>Motherboard:</u> Dimensions (wxhxd):	<ul style="list-style-type: none"> • type KFD2-SCD2-Ex1.LK, single channel, (AO) • 8 modules (8 channels) • 1 D-SUB 25 pin, female system connector • 2 HART 26 pin, male connector • 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



Cable connector (FSY...) between the modules and the PCB

Main board

Terminal strip (removable) for redundant power supply and power monitoring (Option: LB/SC monitoring)

Metal base plate with integrated brackets for mounting on DIN rail

Adapter board with customer specified system plug to Honeywell 1756 Rack IO Modules

Connector for HART-Multiplexer (Option)

Urheberrecht nach DIN 34 Weitergabe sowie Vervielfältigung ist nicht gestattet

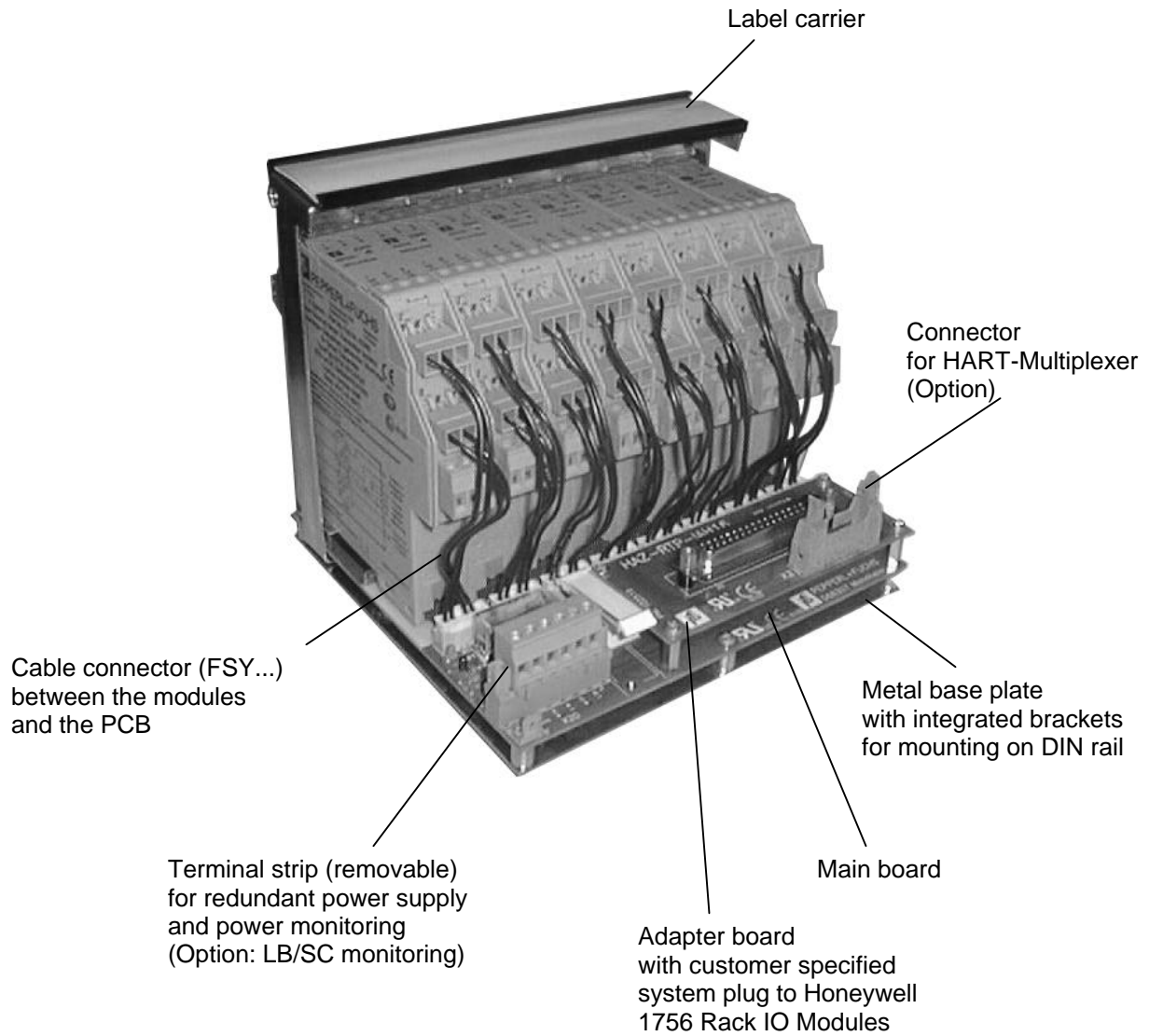



PEPPERL+FUCHS
Mannheim-Schönau

HAZ-RTP...(Motherboard)
General Description

22.08.02					
Datum	S	TD	Off. In ch.	contr. techn.	contr. Norm
Dept.: PA-VP			No. Word		
Up date: 26.03.04		B: Sb/Bro Xxxx / 36-xxxx		Replaces : Sheet 1	
Scale:				from 1	

2. Model with 8 Modules

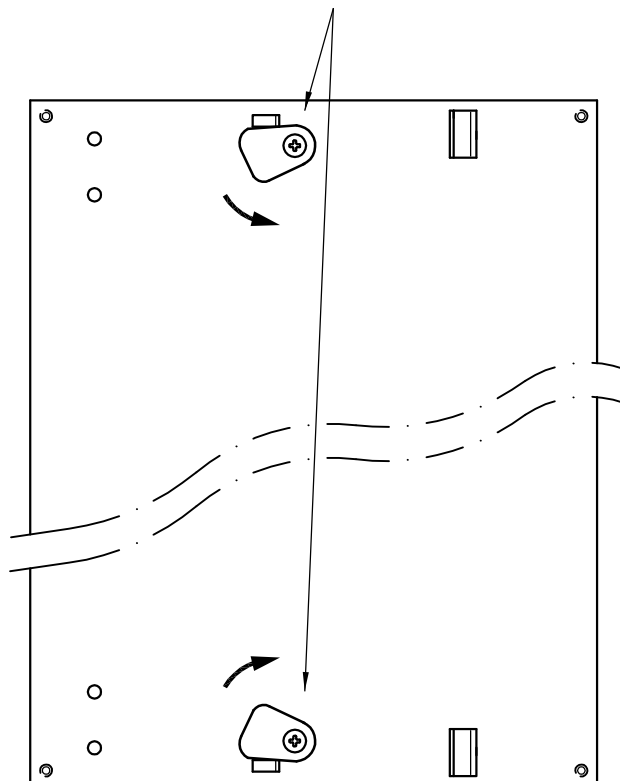
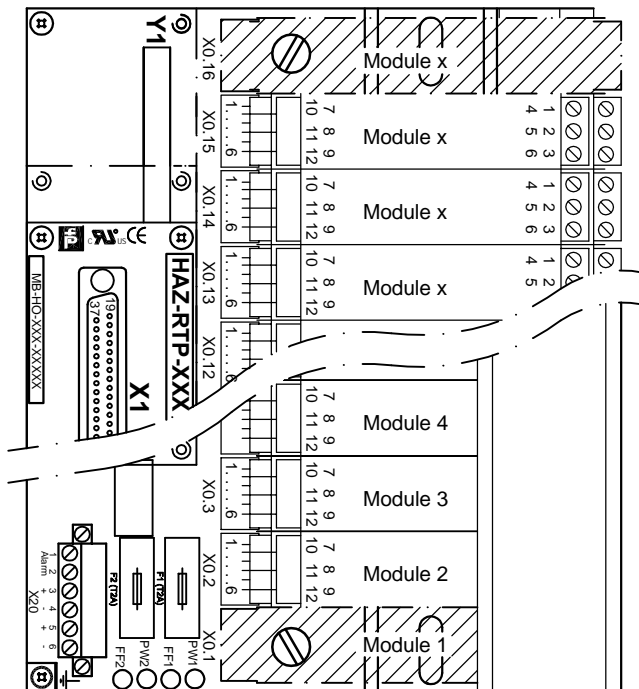


	PEPPERL+FUCHS Mannheim-Schönau	HAZ-RTP...(Motherboard) General Description	24.10.00							
			Datum	S	TD	Off. In ch.	contr. techn.	contr. Norm		
			Dept.: PA-VP			No. Word				
			Up date: 26.03.04			Replaces : Xxxxx / 36-xxxx			Sheet 1	
			Scale:			from 1				

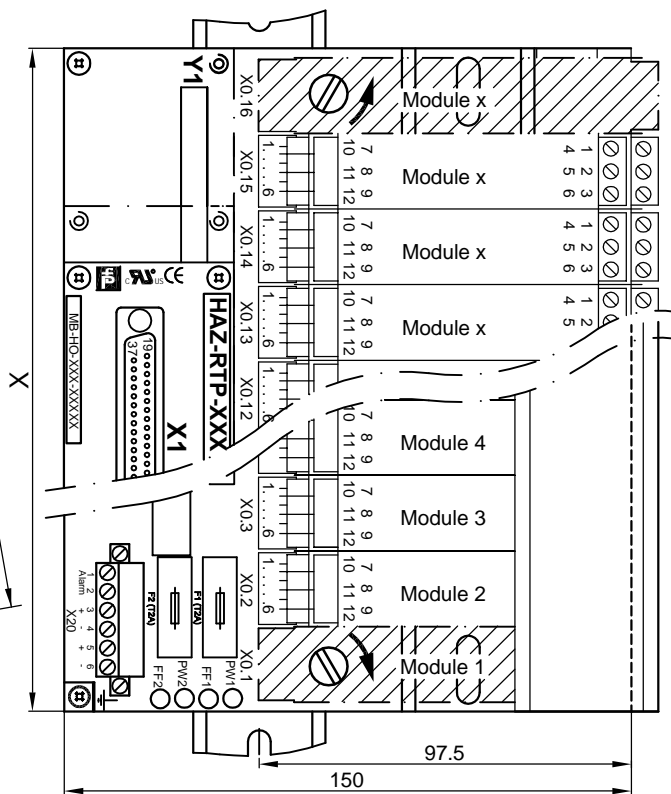
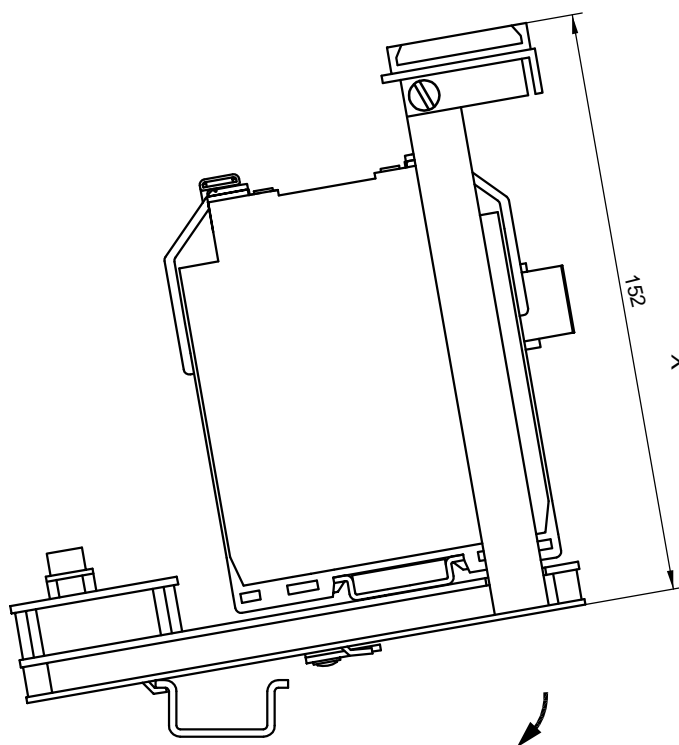
Installations instructions

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)



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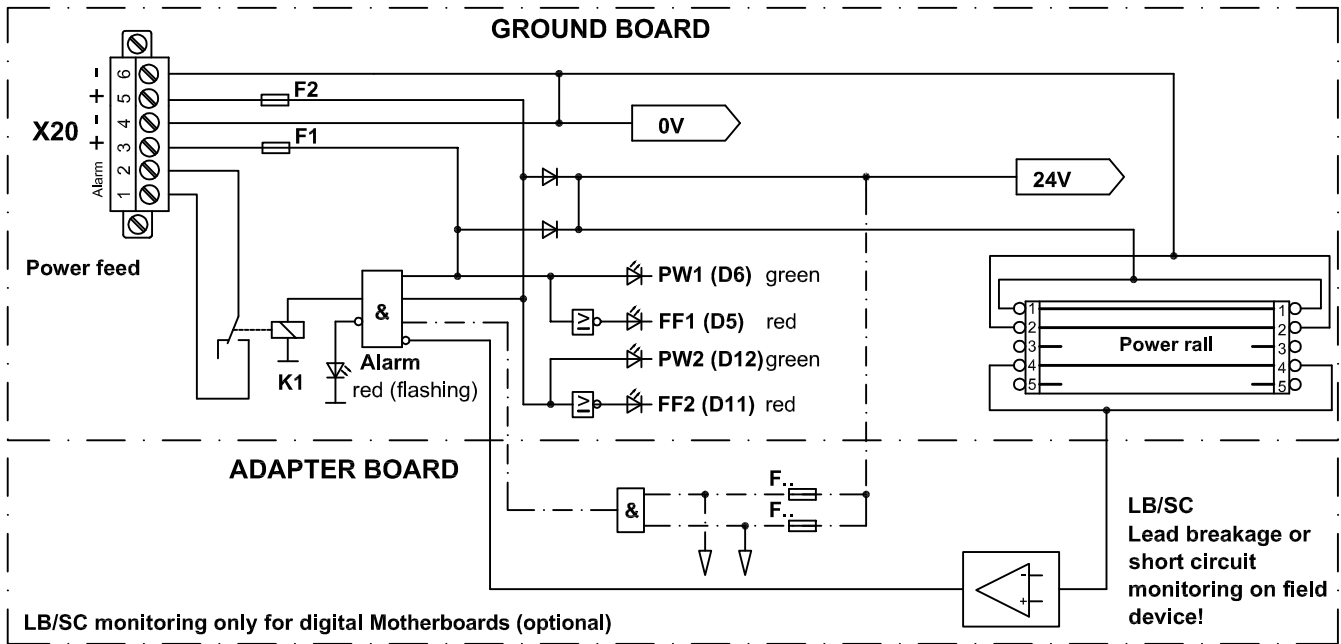


PEPPERL+FUCHS
Mannheim-Schönau

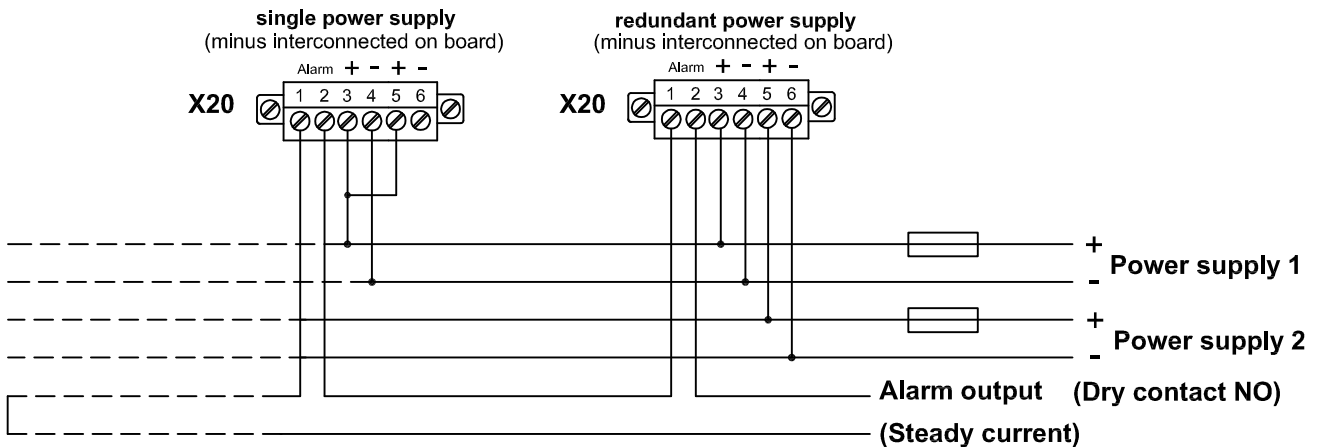
Mounting instructions
for HAZ-RTP...

14.02.00	DN	vB	Sb/vB		
Date	S TD	Off. in ch.	contr. techn.	contr. Norm	
Dept.: PA-VP		No. 36-9159A1			
Up date: 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

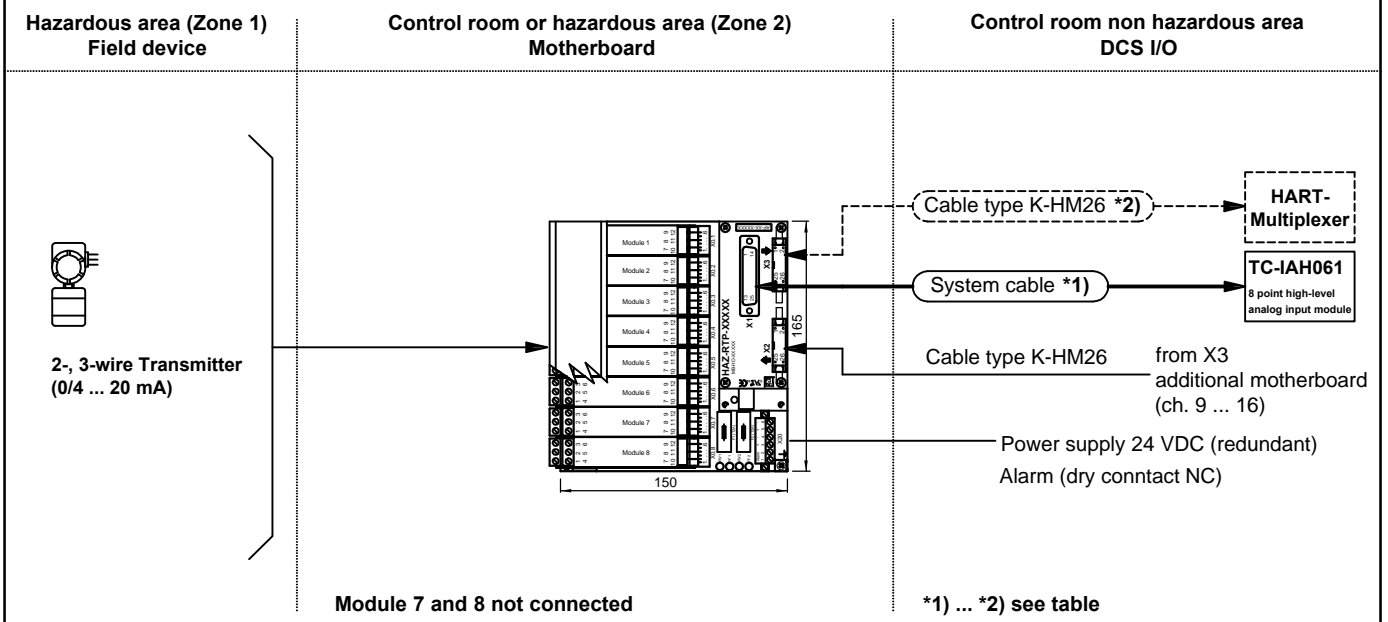
04.04.01	vB	Sb	vB/Sb
Date	S	TZ	Off. in ch. contr. techn. contr. Norm
Dept.: PA-PG-IF	Nr. 36-7143F1		
Up date: 21.04.2010	Replaces: xxxxxxxx/ 36-xxxx	Sheet 1	
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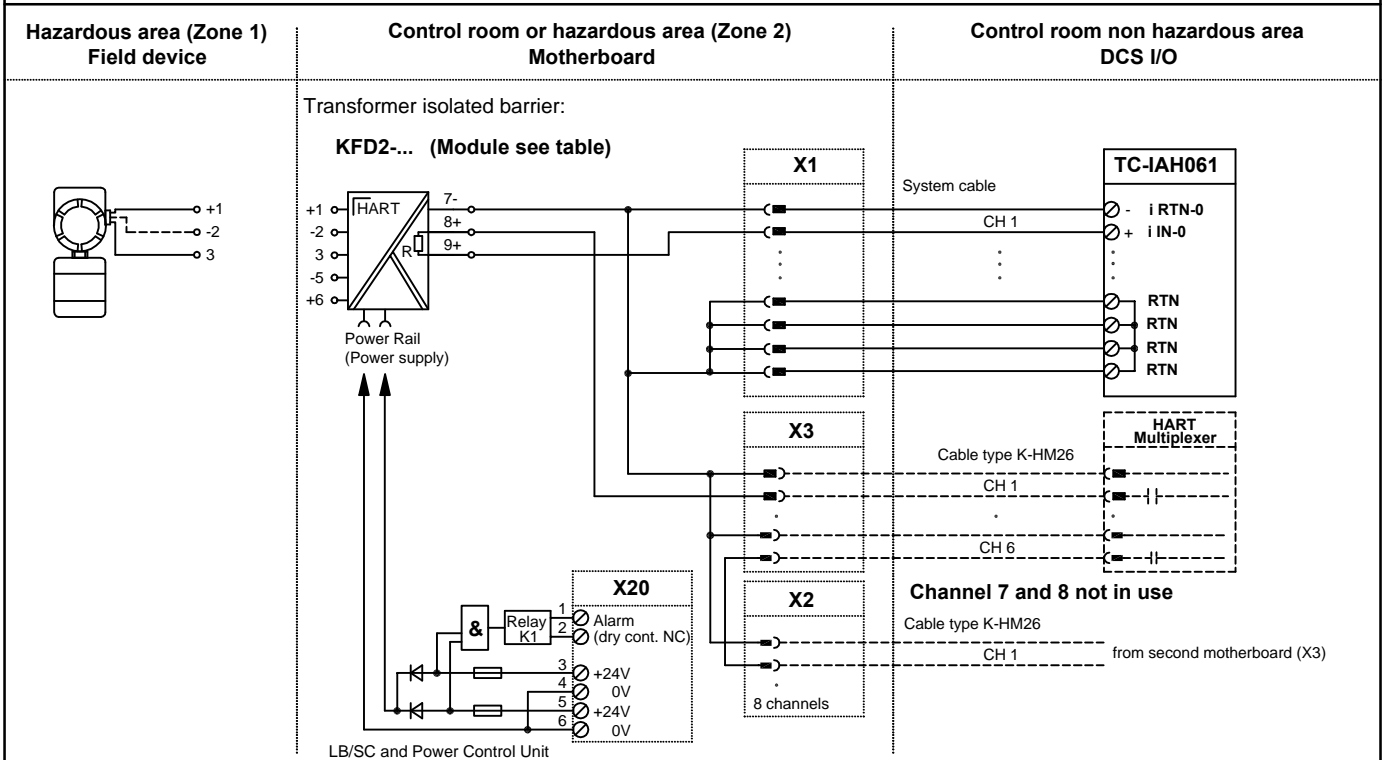
2. TC/TK-IAH061 Application

(6 channels AI current 4 ... 20 mA)

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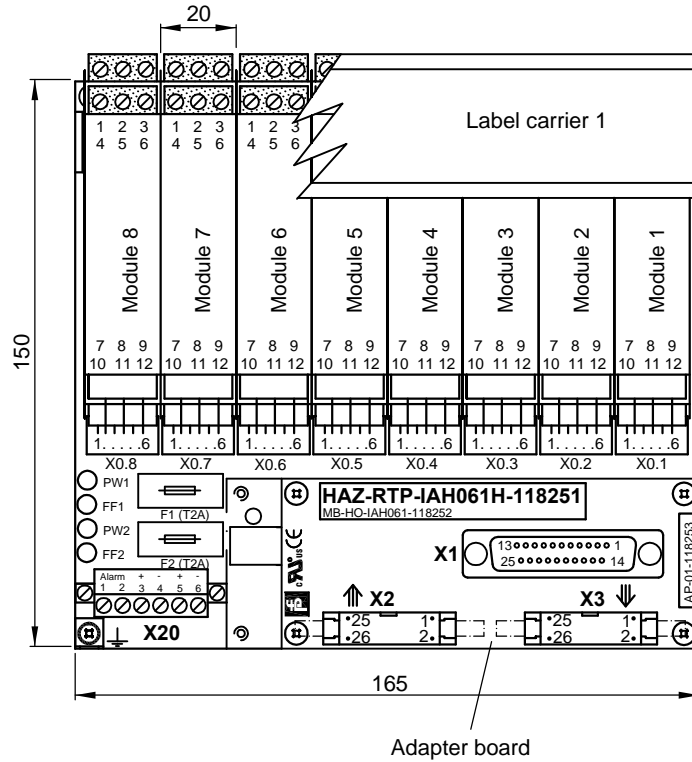
LOOP-DIAGRAM (1-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-IAH061H-118251	AI, current	KFD2-STC4-Ex1	HAZ-25xMx	yes	

	APPLICATION FOR				20.02.03	KT	Sb.	Sb.		
	Honeywell				Date	S	TD	Off. in ch.	contr. techn.	contr. Norm
	1756 Rack IO Modules				Dept.: PA - VP		No. 36-6190A			
					Up date: 26.03.04	Sb/Br		Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1

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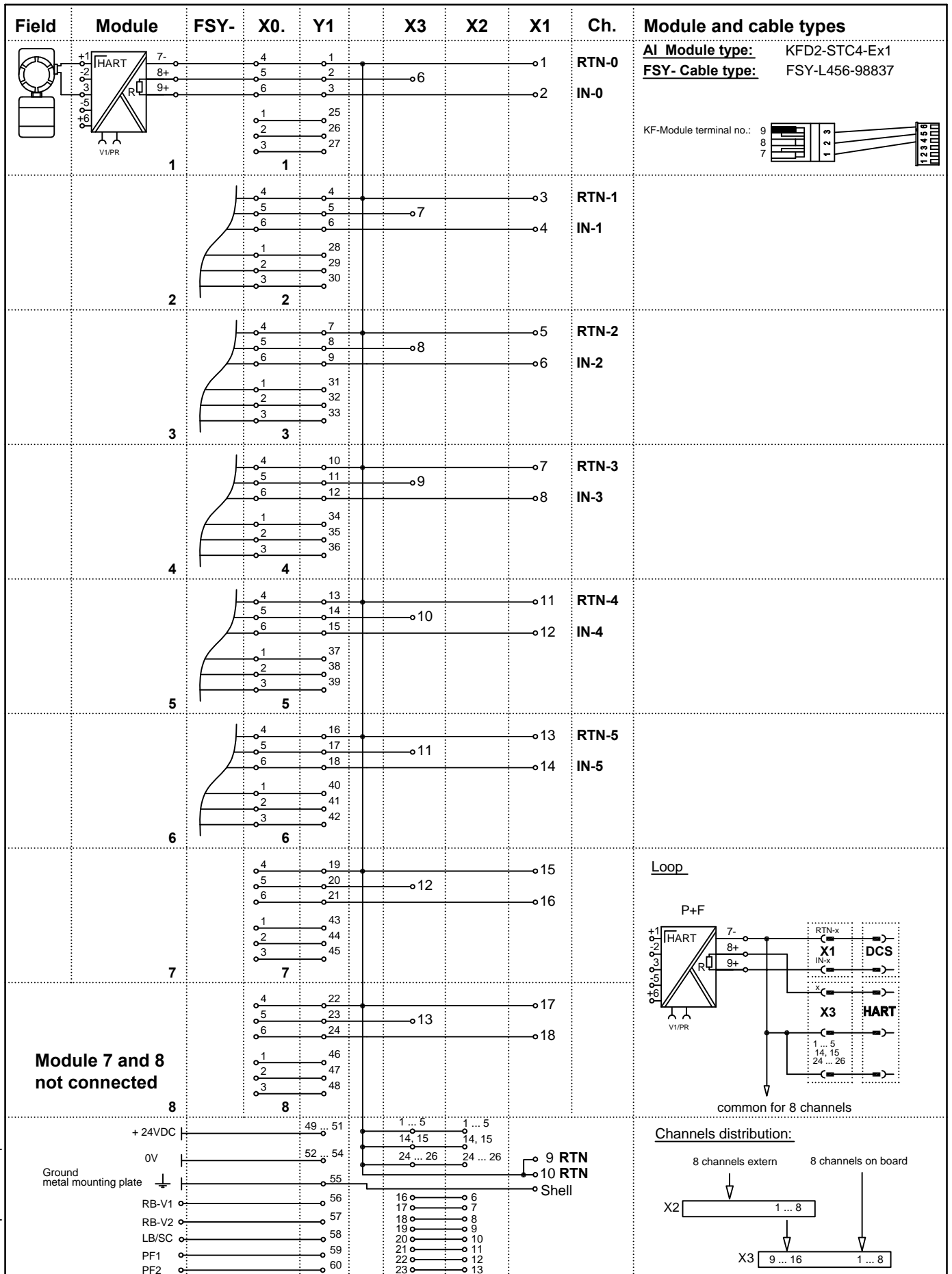


Name	Note
X1	25 pin female system connector DSUB
X2, X3	26 pin HART connector male
X0.1 8	6 pin male terminals for cable tree FSU....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure

Ordering information: HAZ-RTP-IAH061H-118251	
Basic components:	Description
8 pieces: KFD2-STC4-Ex1 (AI)	KF-Module type (function)
1 piece: MB-HO-IAH061H-118252	Motherboard without modules
composed by:	
1 piece: MB-8U2-Y97680	Motherboard without modules, adapter board, FSU cable tree and Label carrier
1 piece: AP-01-118253	Adapter board
1 piece: KFD0-LC1-8M-99143	Label carrier 1
8 pieces: FSU-L456-Y98836	Cabel tree connection KF-Module-Motherboard

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PF	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Input - HART 6 channels HAZ-RTP-IAH061H-118251	25.02.02	Sb	Sb	Sb/vB
			Date	S TZ	Off. in ch.	contr. techn.
		Dept.: PA-VP	Nr. 36-7459A			
		Up date: 17.03.04	Sb/Bro		Replaces: xxxxxx / 36-xxxx	
		MB-8U2	Scale: 1 : 2		Sheet 1 of 2	



25.02.02	Sb	Sb	Sb	
Date	S	TD	Off. in ch.	contr. Norm
Dept.: PA-VP	Sb/Bro 17.03.04		No. 36-7459A	
Up date:	XXXXXX / 36-XXXX		Replaces: XXXXXX / 36-XXXX	
MB-8U2	Scale: -:-		Sheet 2 of 2	

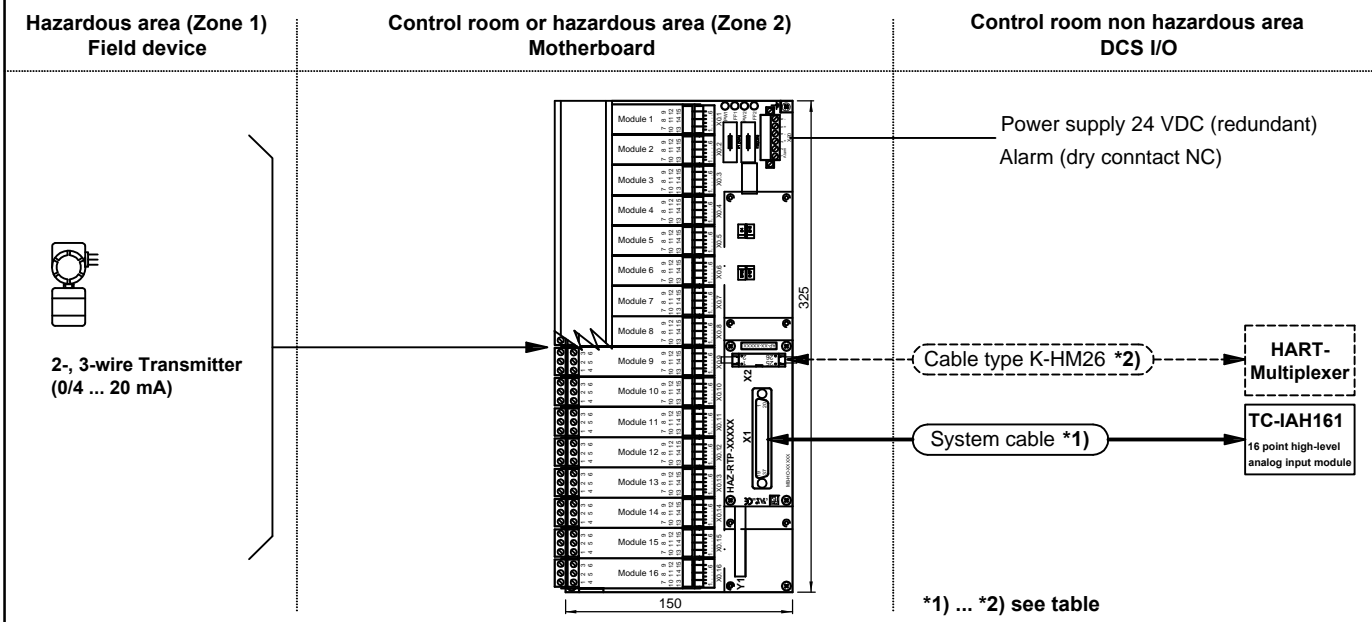


Motherboard unit
Analog Input - HART
6 channels
HAZ-RTP-IAH061H-118251

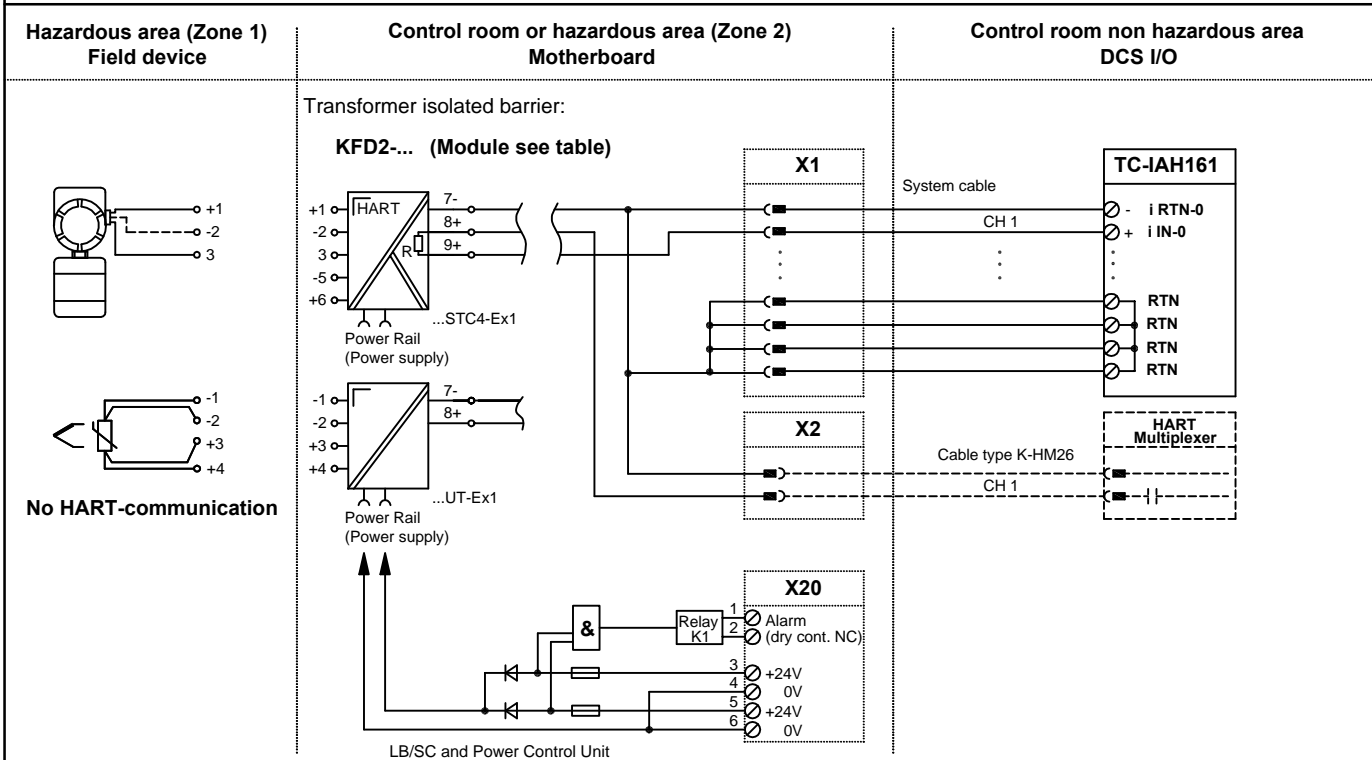
3. TC/TK-IAH161 Application

(16 channels AI current 4 ... 20 mA)

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HAZ-RTP-IAH161T-123894	3- 5
Documentation	3- 6
HAZ-RTP-IAH161H-105268	3- 8
Documentation	3- 9



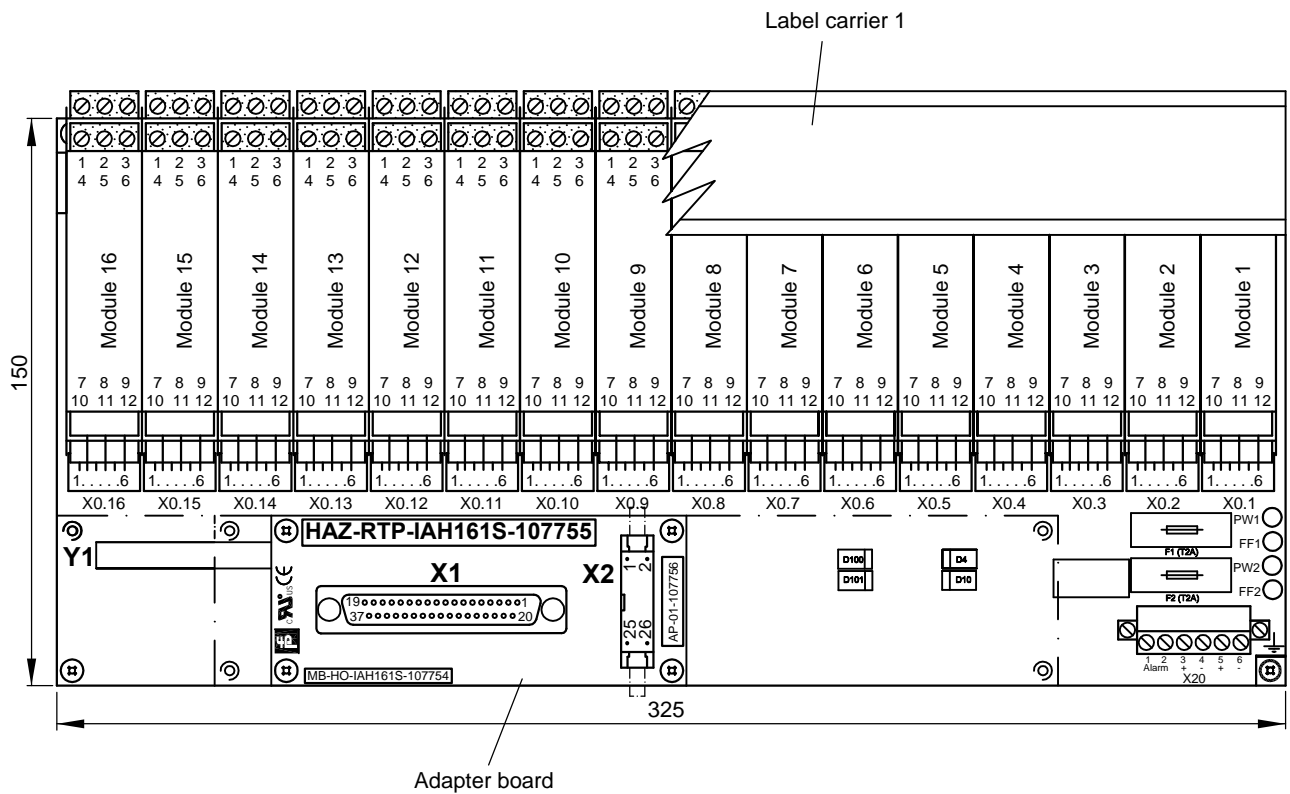
LOOP-DIAGRAM (1-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-IAH161S-107755	AI, current	KFD2-STC4-Ex1	HAZ-37xMx	yes	
HAZ-RTP-IAH161T-123894	AI, current	KFD2-UT-Ex1	HAZ-37xMx	no	

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PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR				20.02.03	KT	Sb.	Sb.		
	Honeywell				Date	S	TD	Off. in ch.	contr. techn.	contr. Norm.
	1756 Rack IO Modules				Dept.: PA - VP		No. 36-6189A1			
					Up date: Sb/Br 26.03.04	Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1		
						Scale: 1 : 5				

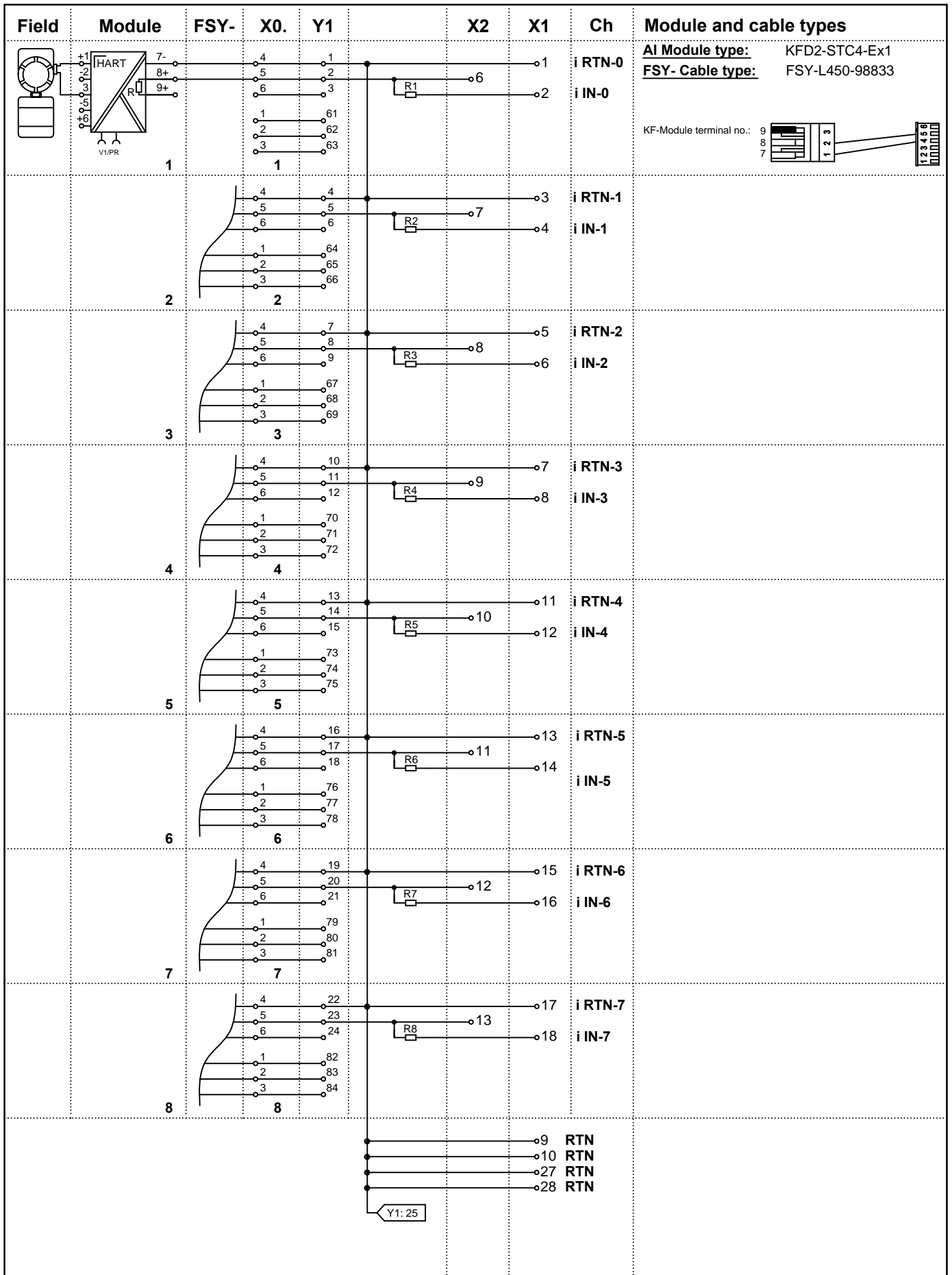


Name	Note
X1	37 pin female system connector DSUB
X2	26 pin HART connector male
X0.1 16	6 pin male terminals for cable tree FSU....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

Ordering information: HAZ-RTP-IAH161S-107755	
Basic components:	Description
16 pieces: KFD2-STC4-Ex1 (AI)	KF-Module type (function)
1 piece: MB-HO-IAH161S-107754	Motherboard without modules
composed by:	
1 piece: MB-16U5L-103681	Motherboard without modules, adapter board, FSU cable tree and Label carrier
1 piece: AP-01-107756	Adapter board
1 piece: KFD0-LC1-16M-99144	Label carrier 1
16 pieces: FSU-L450-98833	Cabel tree connection KF-Module-Motherboard

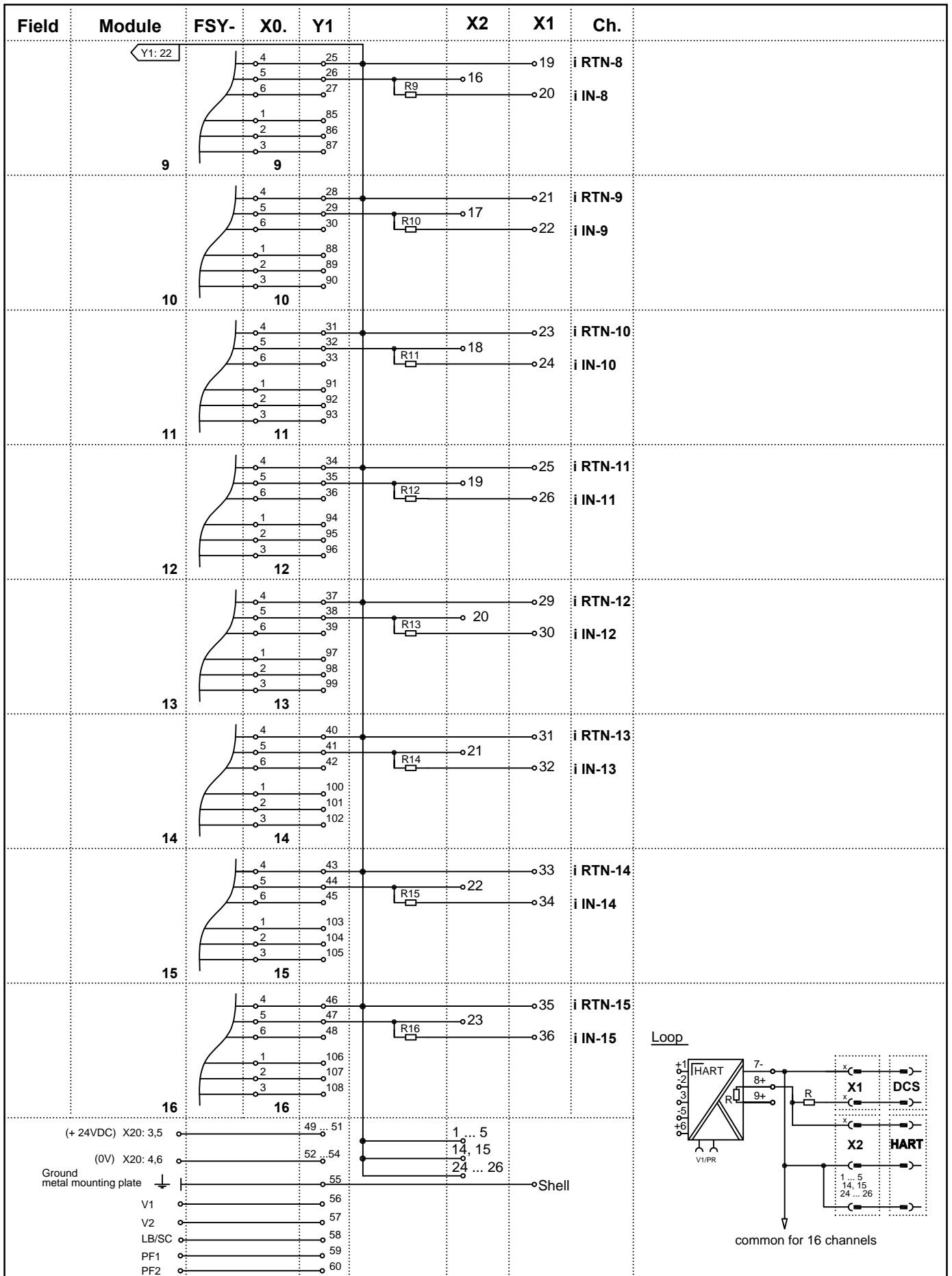
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 PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Input - HART 16 channels - one pick-off HAZ-RTP-IAH161S-107755	27.09.00	SB	SB	Sb/vB		
		Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
		Dept.: PA-VP	Nr. 36-7282				
		Up date: 16.12.03	Sb/BK	Replaces: xxxxxx / 36-xxxx		Sheet 1	
	MB-16U5L	Scale: 1 : 2			of 3		



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	Motherboard unit Analog Input - HART 16 channels - one pick-off HAZ-RTP-IAH161S-107755		25.09.00	Sb	Sb	Sb/vB	
	Date	S TZ	Off. in ch.	contr. techn.	contr. Norm		
	Dept.:	PA-VP	Nr. 36-7282				
	Up date:	Sb/vB 17.07.03	Replaces: xxxxxx/36-xxxx	Sheet 2			
			Scale:	-	of	3	



R = 250 OHM

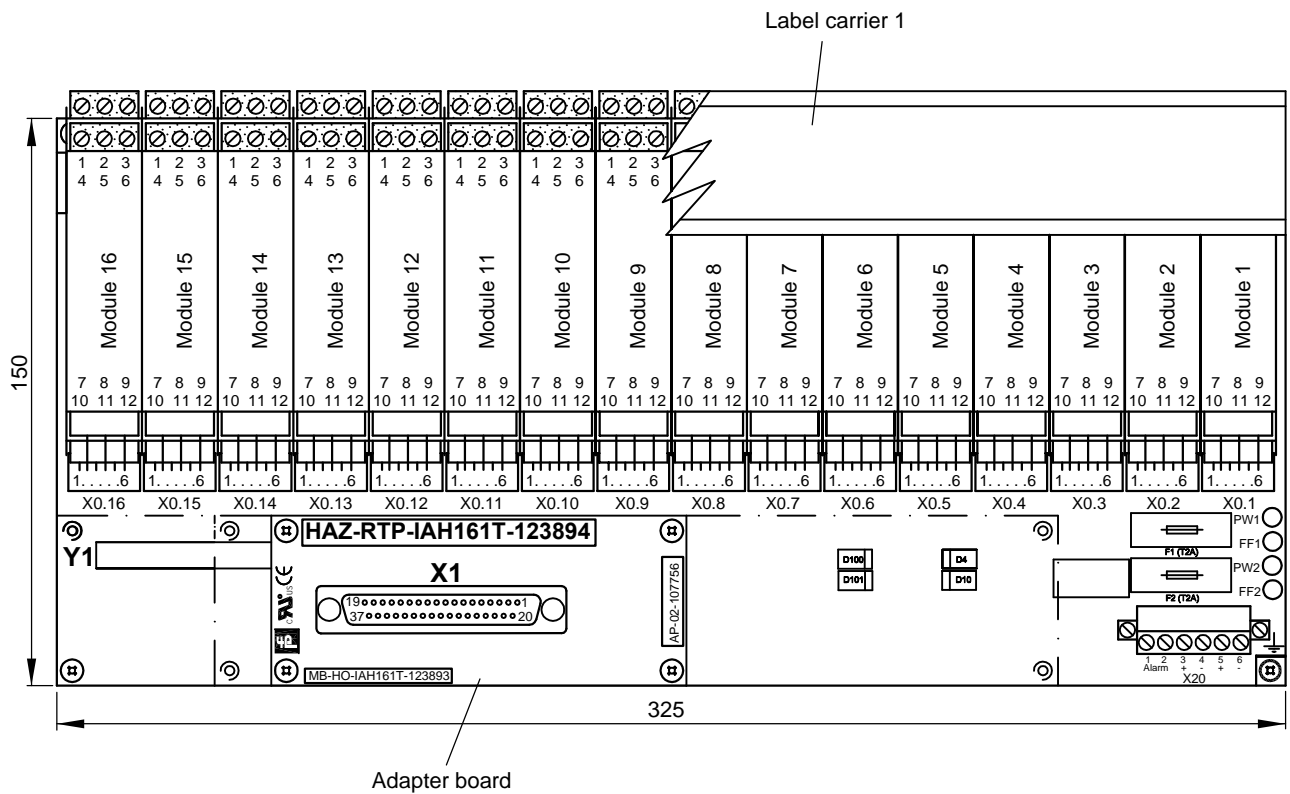
27.09.00	Sb	Sb	Sb/vB	
Date	S	TZ	Off. in ch.	contr. Norm
Dept.: PA-VP		Nr. 36-7282		
Up date: 17.07.03		Replaces: xxxxx/ 36-xxxx		Sheet 3
		Scale: -		of 3



PEPPERL+FUCHS
Mannheim-Schönau

Motherboard unit
Analog Input - HART
16 channels - one pick-off
HAZ-RTP-IAH161S-107755

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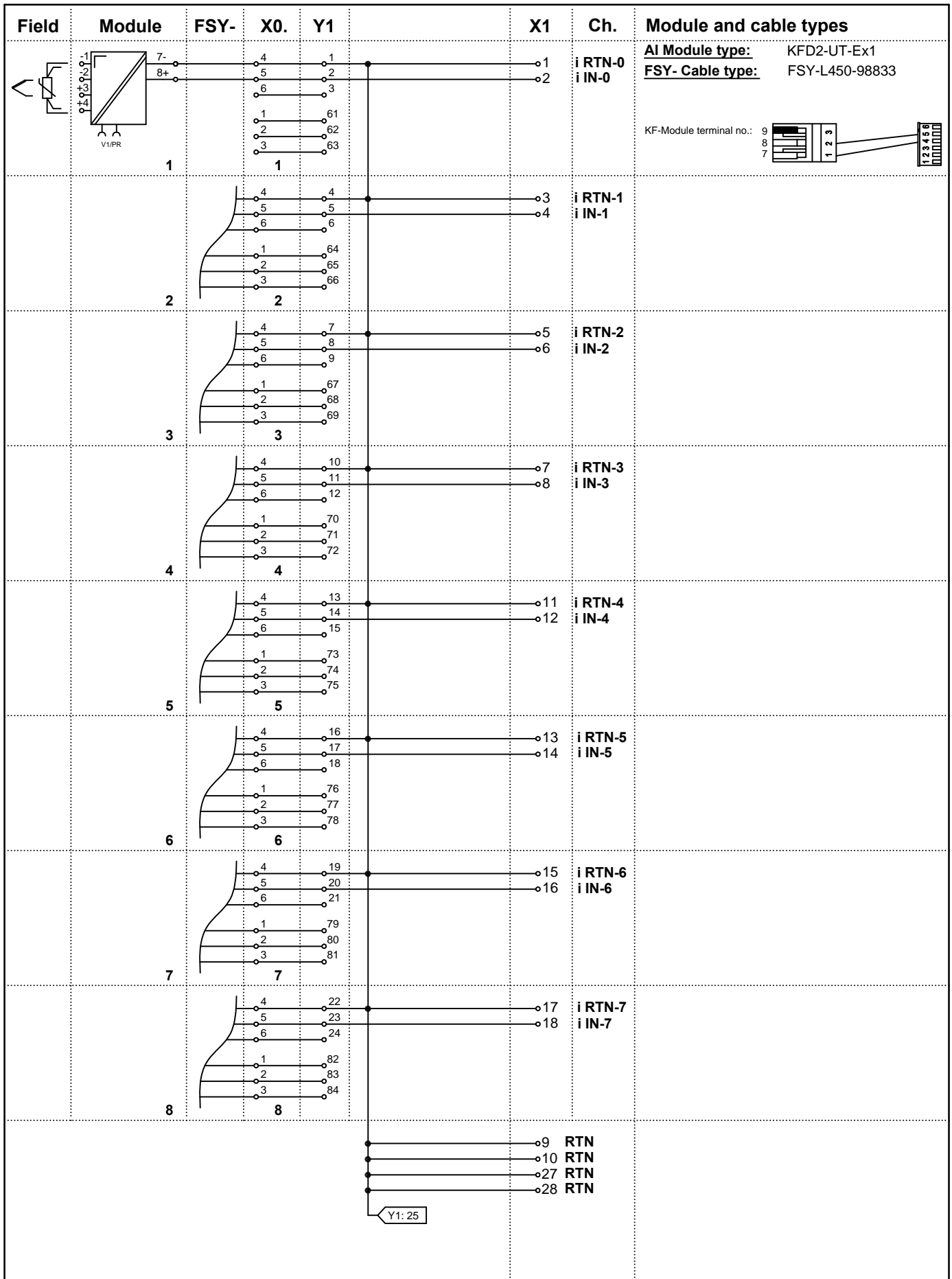


Name	Note
X1	37 pin female system connector DSUB
----	----
X0.1 16	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

Ordering information: HAZ-RTP-IAH161T-123894	
Basic components:	Description
16 pieces: KFD2-UT-Ex1 (AI)	KF-Module type (function)
1 piece: MB-HO-IAH161T-123893	Motherboard without modules
composed by:	
1 piece: MB-16U5L-103681	Motherboard without modules, adapter board, FSY cable tree and Label carrier
1 piece: AP-02-107756	Adapter board
1 piece: KFD0-LC1-16M-99144	Label carrier 1
16 pieces: FSY-L450-98833	Cabel tree connection KF-Module-Motherboard

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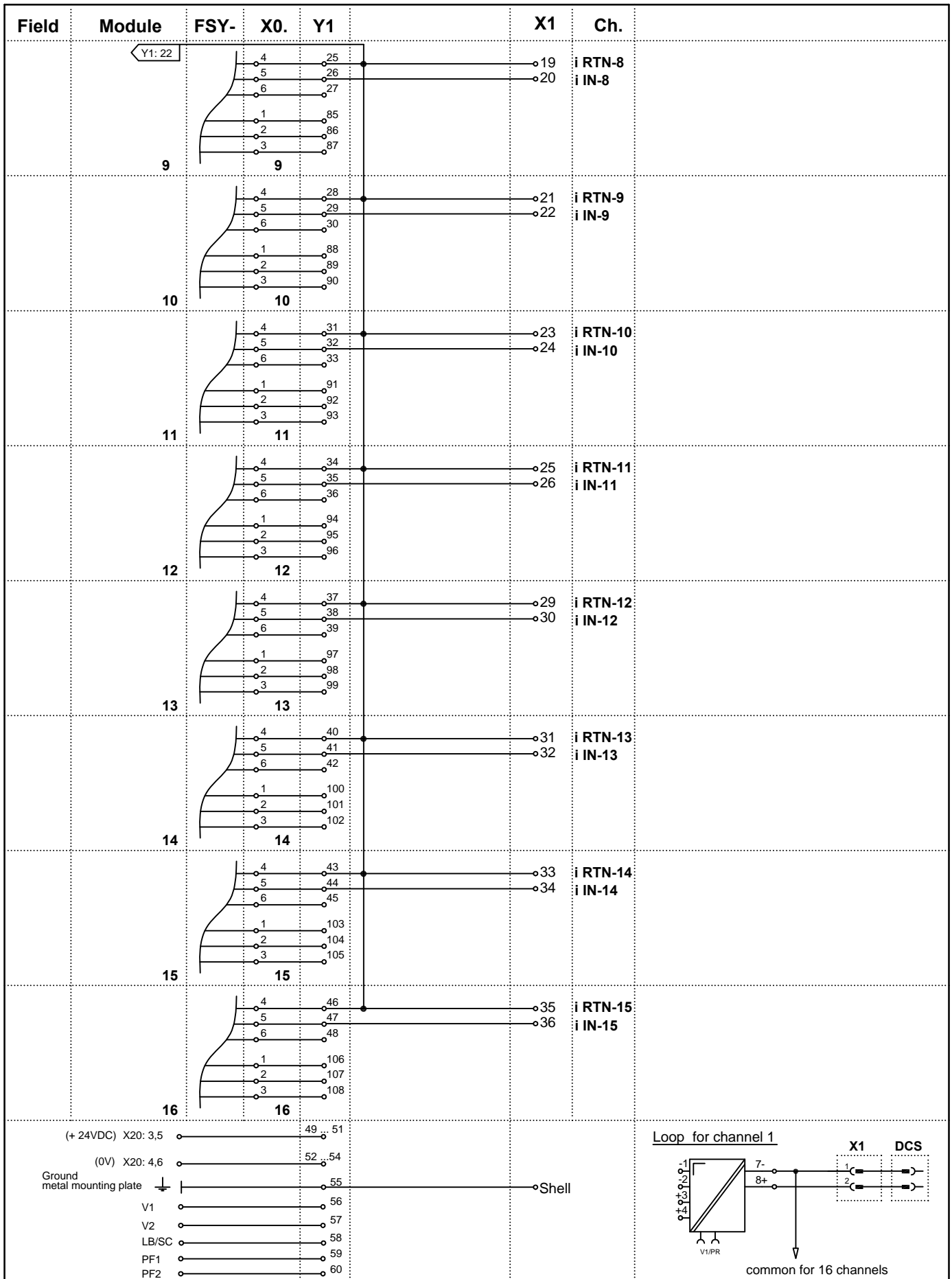
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			Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
			Dept.: PA-VP	Nr. 36-7527			Replaces:	Sheet 1
			Up date: 16.12.03	xxxxxx / 36-xxxx			Scale: 1 : 2	of 3



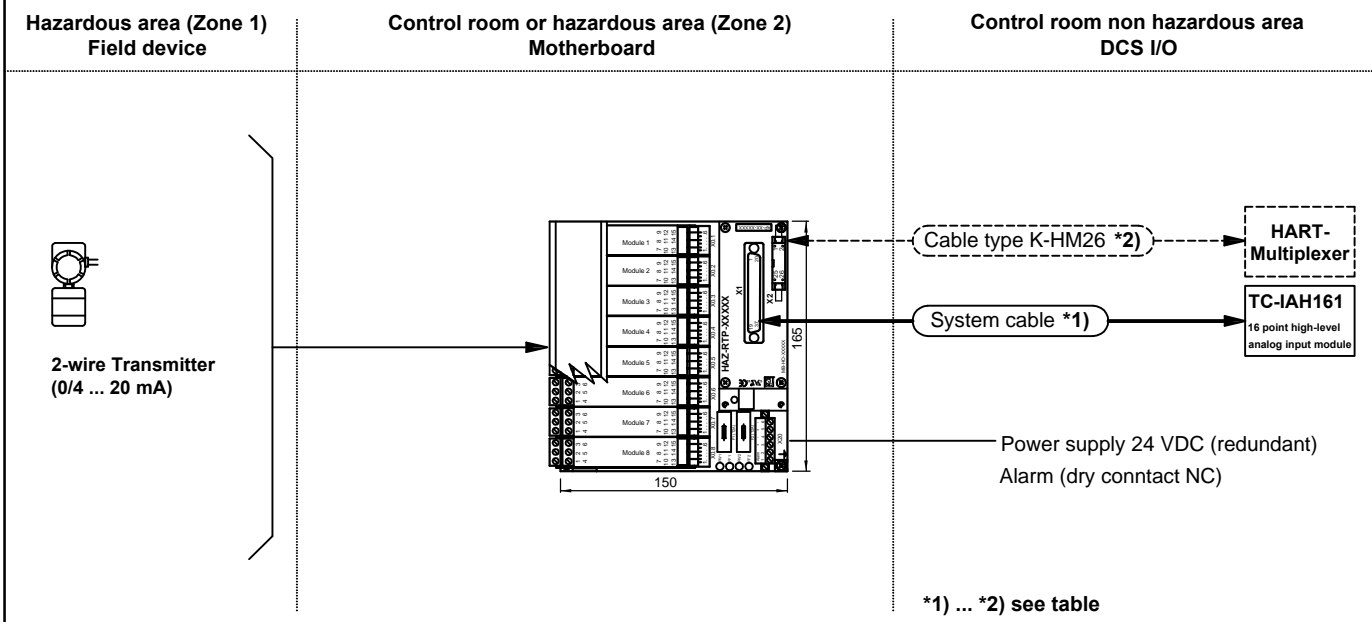
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	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Input 16 channels - one pick-off HAZ-RTP-IAH16T-123894	05.02.03	KT	Sb	Sb		
			Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
			Dept.:	PA-VP		Nr. 36-7527		
			Up date:	19.05.03		Replaces:	xxxxxx/36-xxxx	
			MB-16U5L	Scale:	-		of 3	

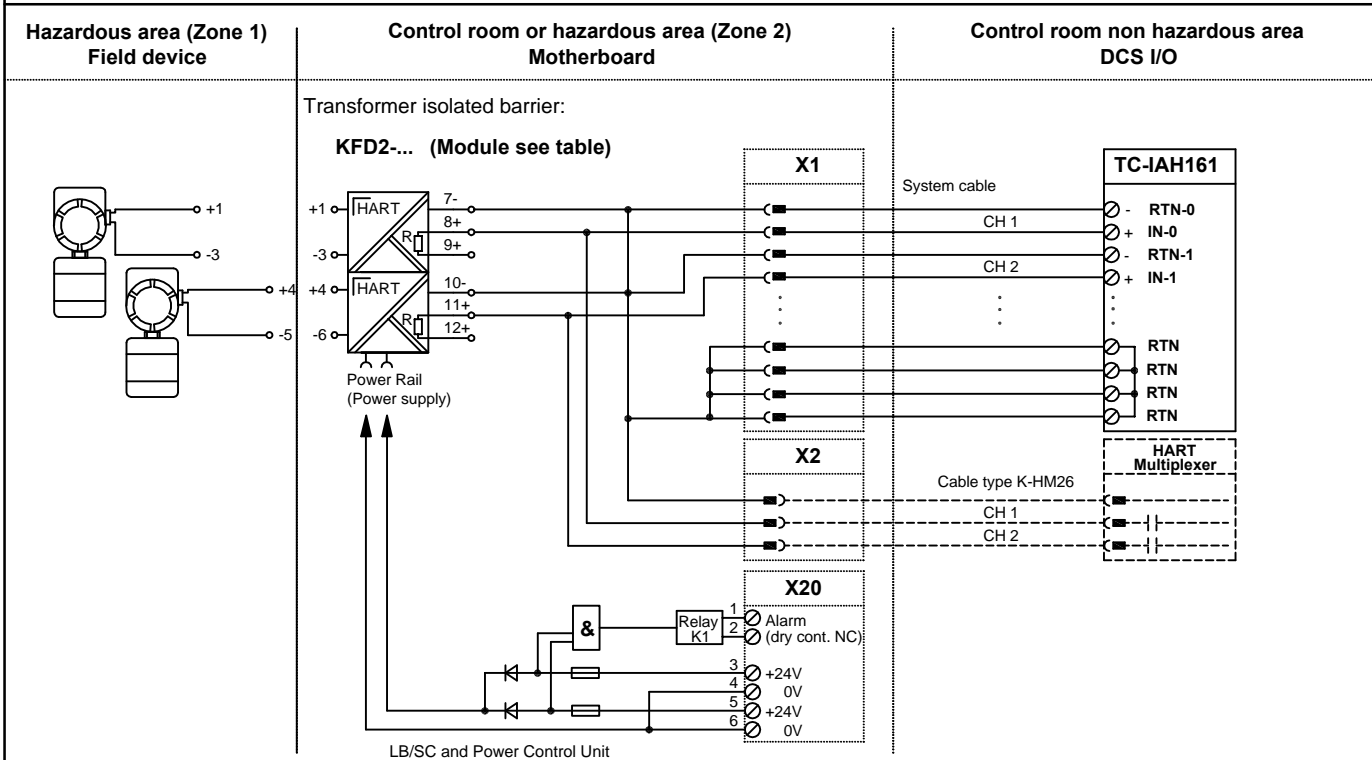
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	PEPPERL+FUCHS Mannheim-Schönau		Motherboard unit Analog Input 16 channels - one pick-off HAZ-RTP-IAH16T-123894			05.02.03	KT	Sb	Sb		
	Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm					
	Dept.: PA-VP		Nr. 36-7527			Replaces: xxxxx/ 36-xxxx		Sheet 3			
	Up date: 19.05.03		Scale: -			of 3					




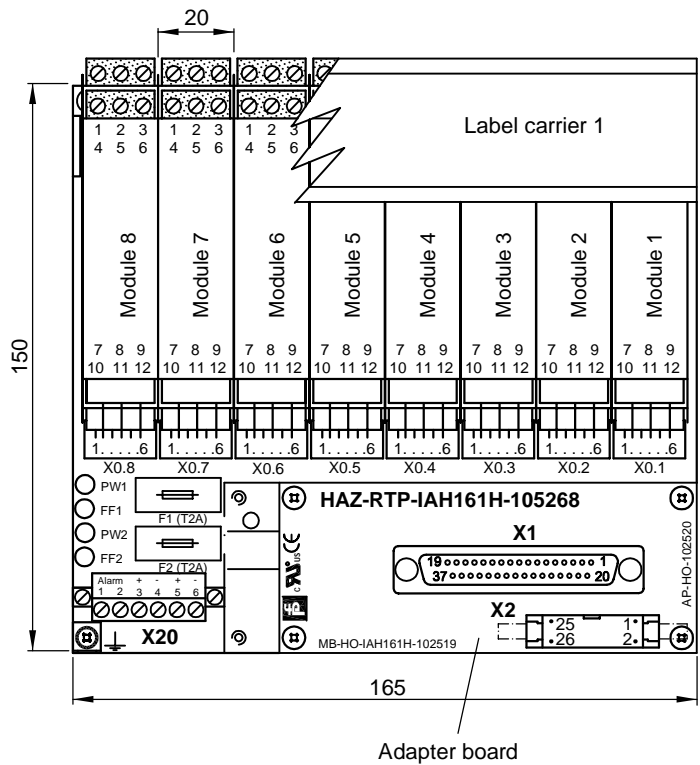
LOOP-DIAGRAM (2-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-IAH161H-105268	AI, current	KFD2-STC4-Ex2	HAZ-37xMx	yes	

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 PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR				20.02.03	KT	Sb.	Sb.		
	Honeywell				Date	S	TD	Off. in ch.	contr. techn.	contr. Norm.
	1756 Rack IO Modules				Dept.: PA - VP		No. 36-6189A2			
					Up date: Sb/Br 26.03.04	Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1		
						Scale: 1 : 5				

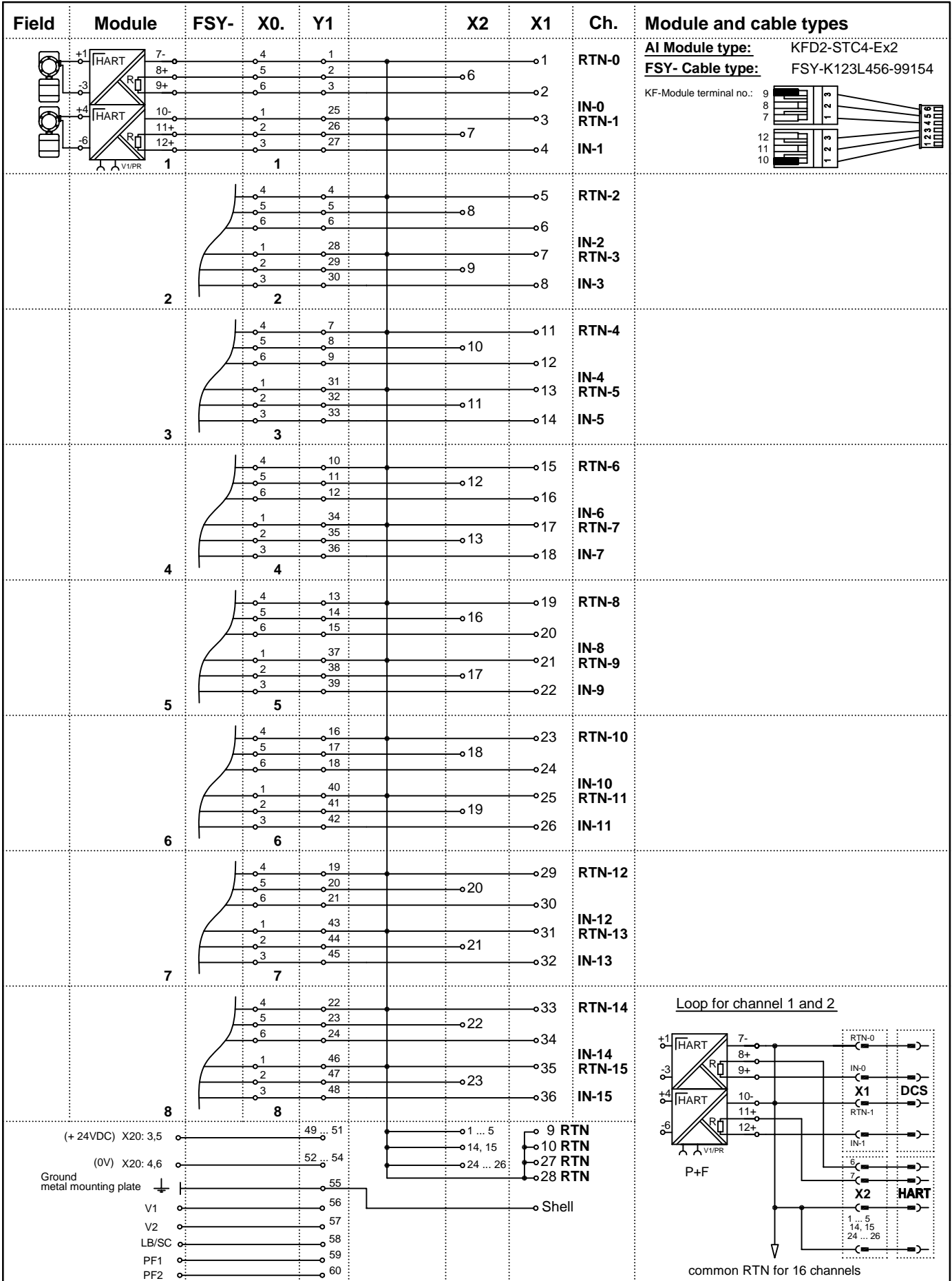


Name	Note
X1	37 pin female system connector DSUB
X2	26 pin HART connector male
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

Ordering information: HAZ-RTP-IAH161H-105268	
Basic components:	Description
8 pieces: KFD2-STC4-Ex2 (AI)	KF-Module type (function)
1 piece: MB-HO-IAH161H-102519	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-102520	Adapter board
1 piece: KFD0-LC1-8M-99143	Label carrier 1
8 pieces: FSY-K123L456-99154	Cabel tree connection KF-Module-Motherboard

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 PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Input - HART 16 channels HAZ-RTP-IAH161H-105268	25.02.00	vB	Sb	Sb	
		Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
		Dept.: PA-VP	Nbr. 36-7220A			
		Up date: 07.09.06	vB	Replaces: xxxxxx / 36-xxxx	Sheet 1	
		MB-8U2	Scale: 1 : 2	of 2		



25.02.00	vB	Sb	Sb	
Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA-VP	Nr. 36-7220A			
Up date: 07.09.06	vB	Replaces: xxxxxxx / 36-xxxx	Sheet 2	
	Scale:	of 2		



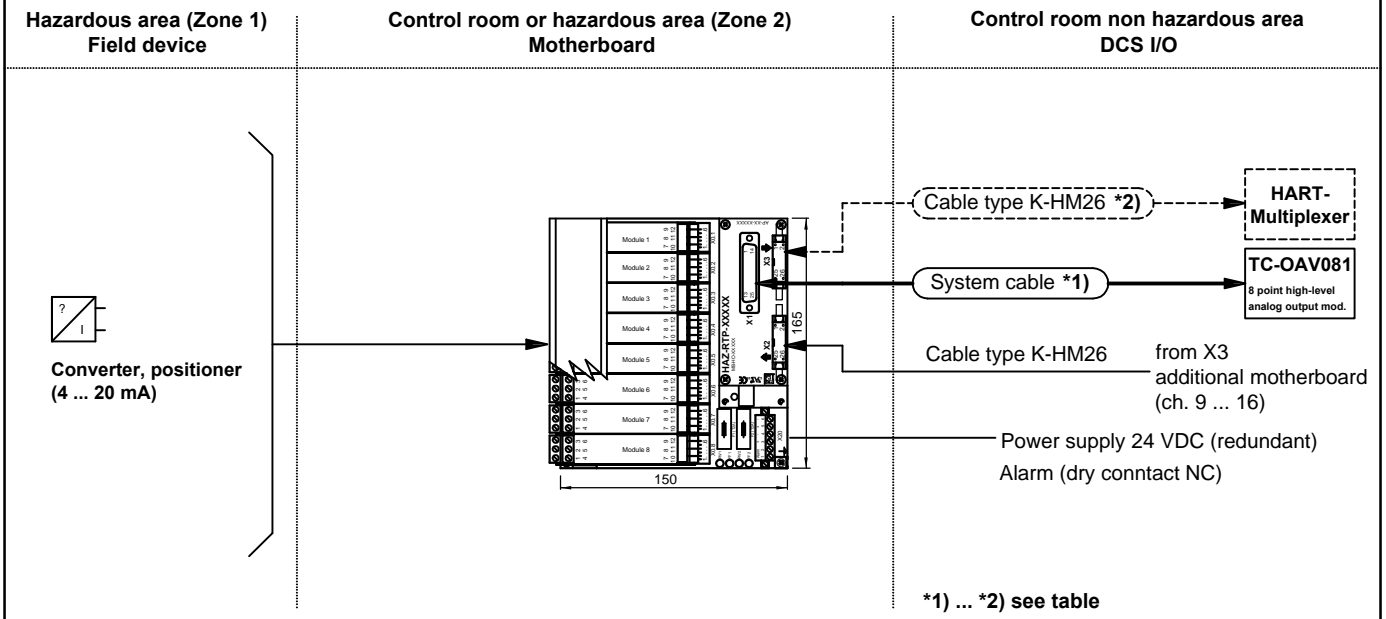
Motherboard unit
Analog Input - HART
16 channels
HAZ-RTP-IAH161H-105268

4. TC/TK-OAV081 Application

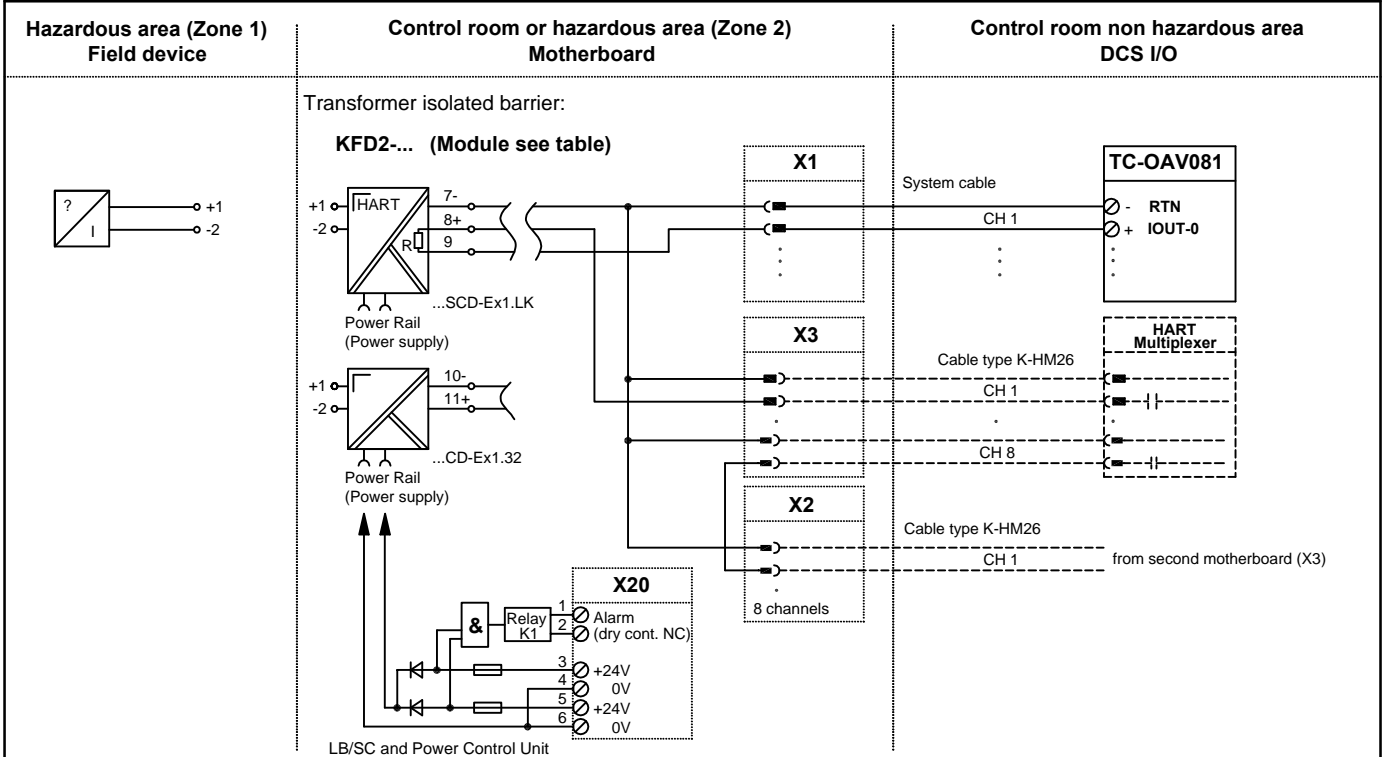
(8 channels AO current 4 ... 20 mA)

	Page
HAZ-RTP-OAV081H-105269	4- 1
Documentation	4- 2
HAZ-RTP-OAV081-105289	4- 4
Documentation	4- 5

1756 Rack IO Modules




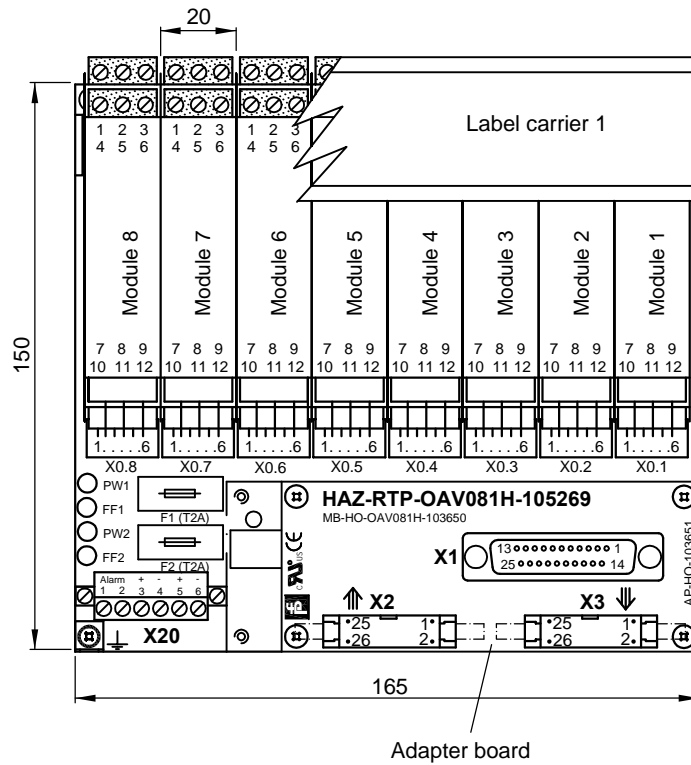
LOOP-DIAGRAM (1-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-OAV081H-105269	AO, current	KFD2-SCD-Ex1.LK	HAZ-25xMx	yes	
HAZ-RTP-OAV081-105289	AO, current	KFD2-CD-Ex1.32	HAZ-25xMx	no	

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 PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR		21.02.03	KT	Sb.	Sb.	
	Honeywell		Date	S TD	Off. in ch.	contr. techn.	contr. Norm.
	1756 Rack IO Modules		Dept.: PA - VP	No. 36-6191A			
			Up date: Sb/ Bro 26.03.04	Replaces: xxxxxx / 36-xxxx	Sheet 1 of 1		
			Scale: 1 : 5				




Name	Note
X1	25 pin female system connector DSUB
X2, X3	26 pin HART connector male (see Note)
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/0,45A/10,5W

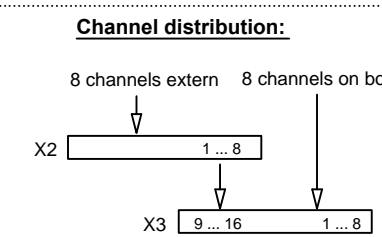
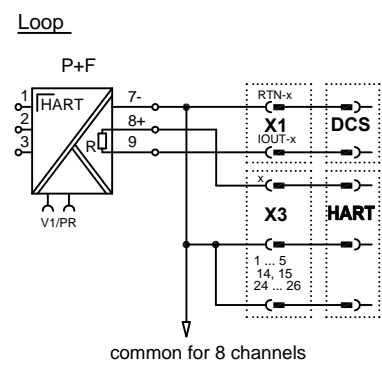
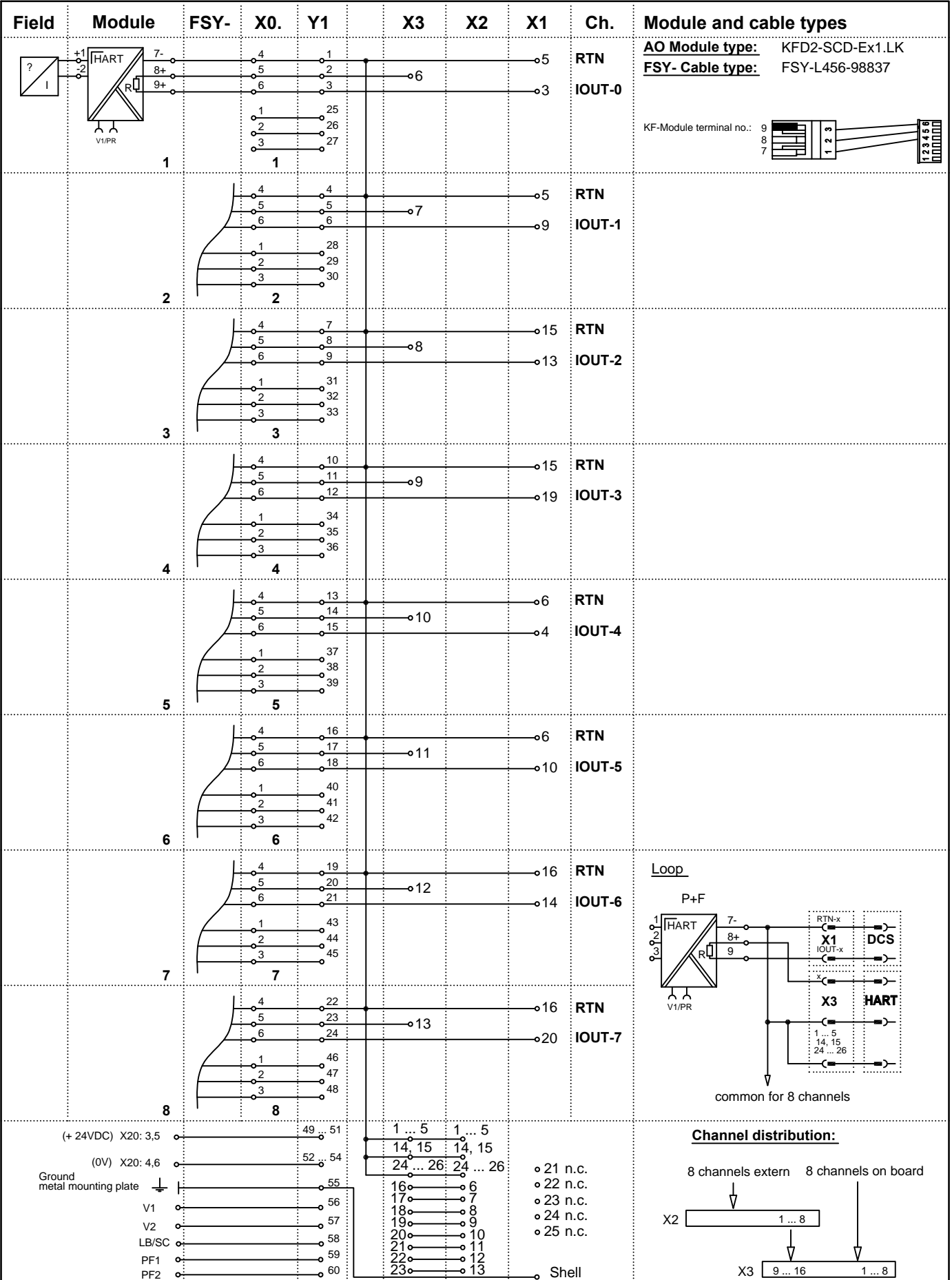
Note: The Pepperl + Fuchs HART multiplexer HMM (master) and HMS (slave) have 16 channels each. In case of connecting this type of board to a HART-multiplexer, two boards can be connected together (to a total of 16 HART channels). The primary board has to be connected to the HMUX using the X3 connector. If more than 8 HART channels are required, a second board can be connected to the primary one. This connection is made using X2 on the primary and X3 on the secondary board.

Ordering information: HAZ-RTP-OAV081H-105269	
Basic components:	Description
8 pieces: KFD2-SCD-Ex1.LK (AO)	KF-Module type (function)
1 piece: MB-HO-OAV081H-103650	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-103651	Adapter board
1 piece: KFD0-LC1-8M-99143	Label carrier 1
8 pieces: FSY-L456-98837	Cabel tree connection KF-Module-Motherboard

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 PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Output - HART 8 channels HAZ-RTP-OAV081H-105269	06.03.00	vB	vB	Sb/vB	
		Date	S	TZ	Off. in ch.	contr. techn.
		Dept.: PA-VP	Nr. 36-7223			
		Up date: 02.04.03	vB/KT	Replaces: xxxxxx / 36-xxxx	Sheet 1	
		MB-8U2	Scale: 1 : 2	of 2		

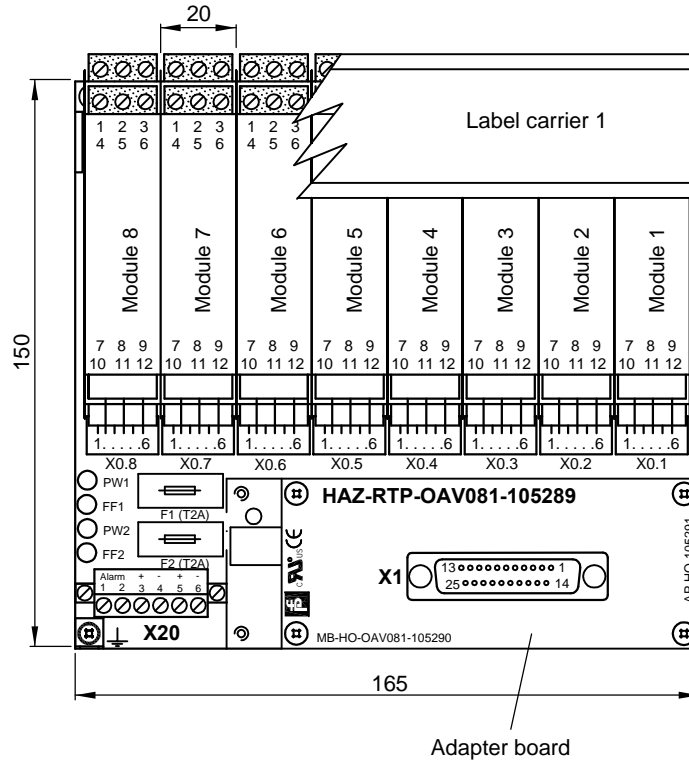
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		06.03.00	SB	SB	Sb/vB	
Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm	
		Dept.: PA-VP		Nr. 36-7223		
		Up date: Sb 07.08.02		Replaces: xxxxxx / 36-xxxx		Sheet 2
				Scale:		of 2



Motherboard unit
Analog Output - HART
8 channels
HAZ-RTP-OAV081H-105269

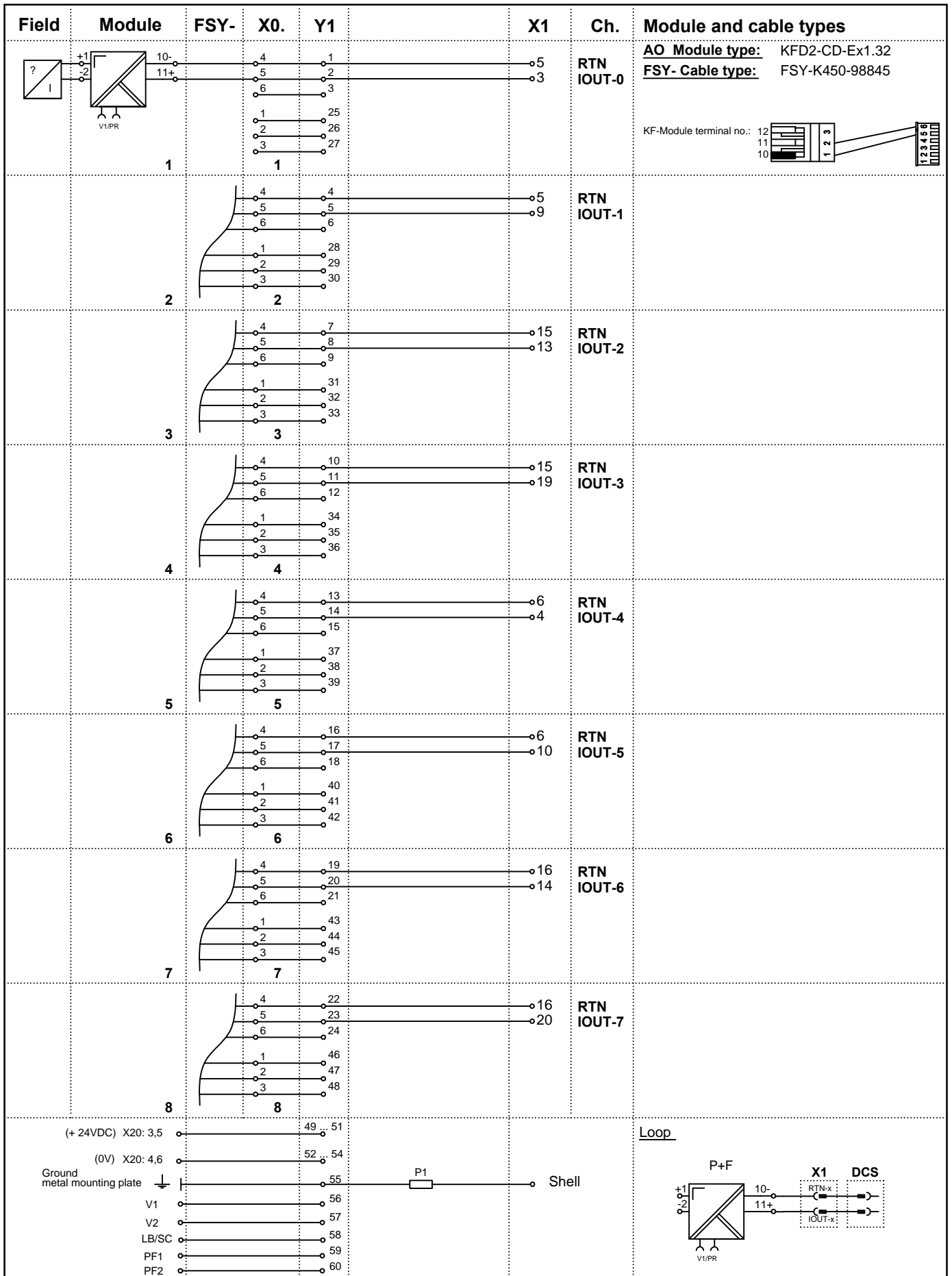


Name	Note
X1	25 pin female system connector DSUB
----	----
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure

Ordering information: HAZ-RTP-OAV081-105289	
Basic components:	Description
8 pieces: KFD2-CD-Ex1.32 (AO)	KF-Module type (function)
1 piece: MB-HO-OAV081-105290	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-105291	Adapter board
1 piece: KFD0-LC1-8M-99143	Label carrier 1
8 pieces: FSY-L450-98845	Cabel tree connection KF-Module-Motherboard

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PF	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Output 8 channels HAZ-RTP-OAV081-105289	19.06.00		vB	vB	Sb/vB	
			Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
			Dept.: PA-VP		Nr. 36-7250			
			Up date: 02.04.03		Replaces: xxxxxx / 36-xxxx		Sheet 1	
			MB-8U2		Scale: 1 : 2		of 2	



P1: resistor 0 Ohm

19.06.00		SB	SB	Sb/vB	
Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
Dept.:	PA-VP		Nr. 36-7250		
Up date:	Sb	02.04.03	Replaces:	xxxxxx / 36-xxxx	Sheet 2
	Scale:				of 2

PEPPERL+FUCHS
Mannheim-Schönau

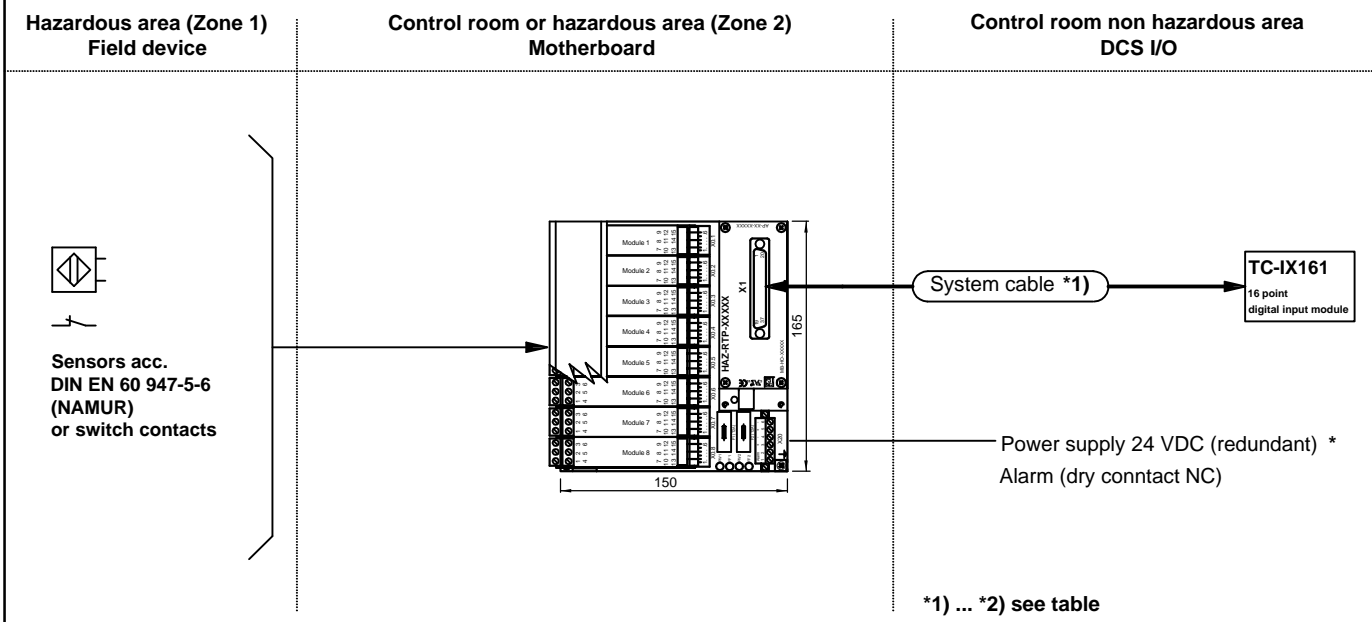
Motherboard unit
Analog Output
8 channels
HAZ-RTP-OAV081-105289



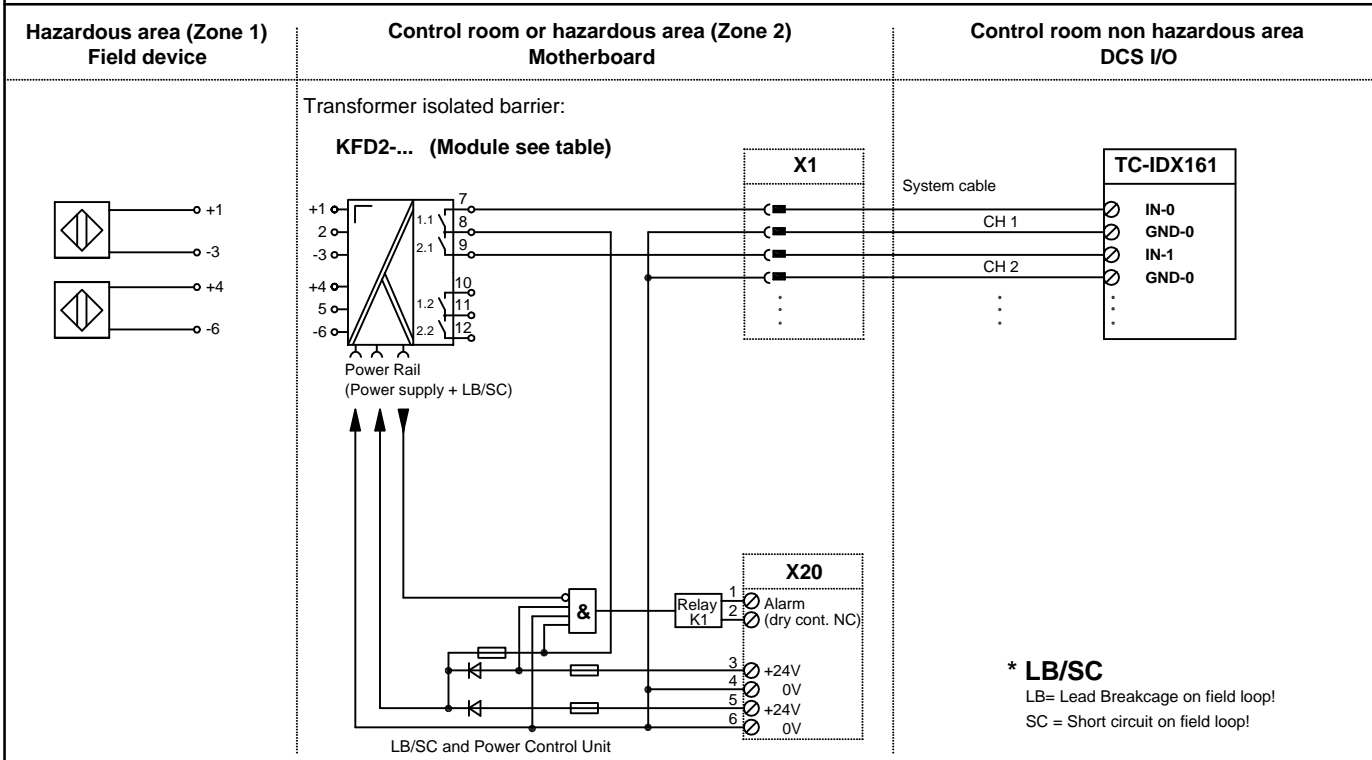
5. TC/TK-IDX161 Application

(16 channels DI 24 VDC)

	Page
HAZ-RTP-IDX161-105281	5- 1
Documentation	5- 2




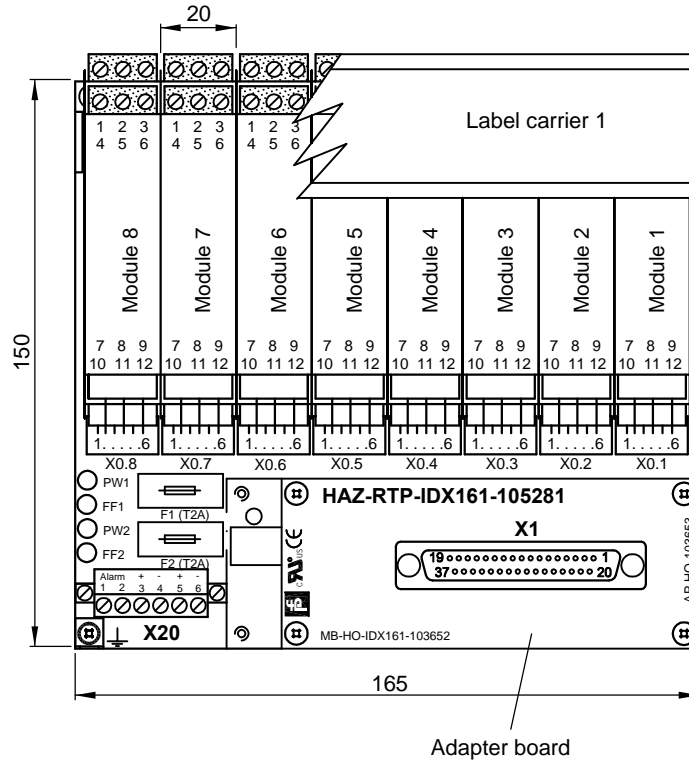
LOOP-DIAGRAM (2-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-IDX161-105281	DI	KFD2-SR2-Ex2.2S	HAZ-37xMx	---	

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 PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR <h2>Honeywell</h2> <h3>1756 Rack IO Modules</h3>		21.02.03	KT	Sb.	Sb.		
			Date	S	TD	Off. in ch.	contr. techn.	contr. Norm.
			Dept.: PA - VP		No. 36-6193A			
			Up date: Sb/Br 26.03.04		Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1	
			Scale: 1 : 5		of 1			



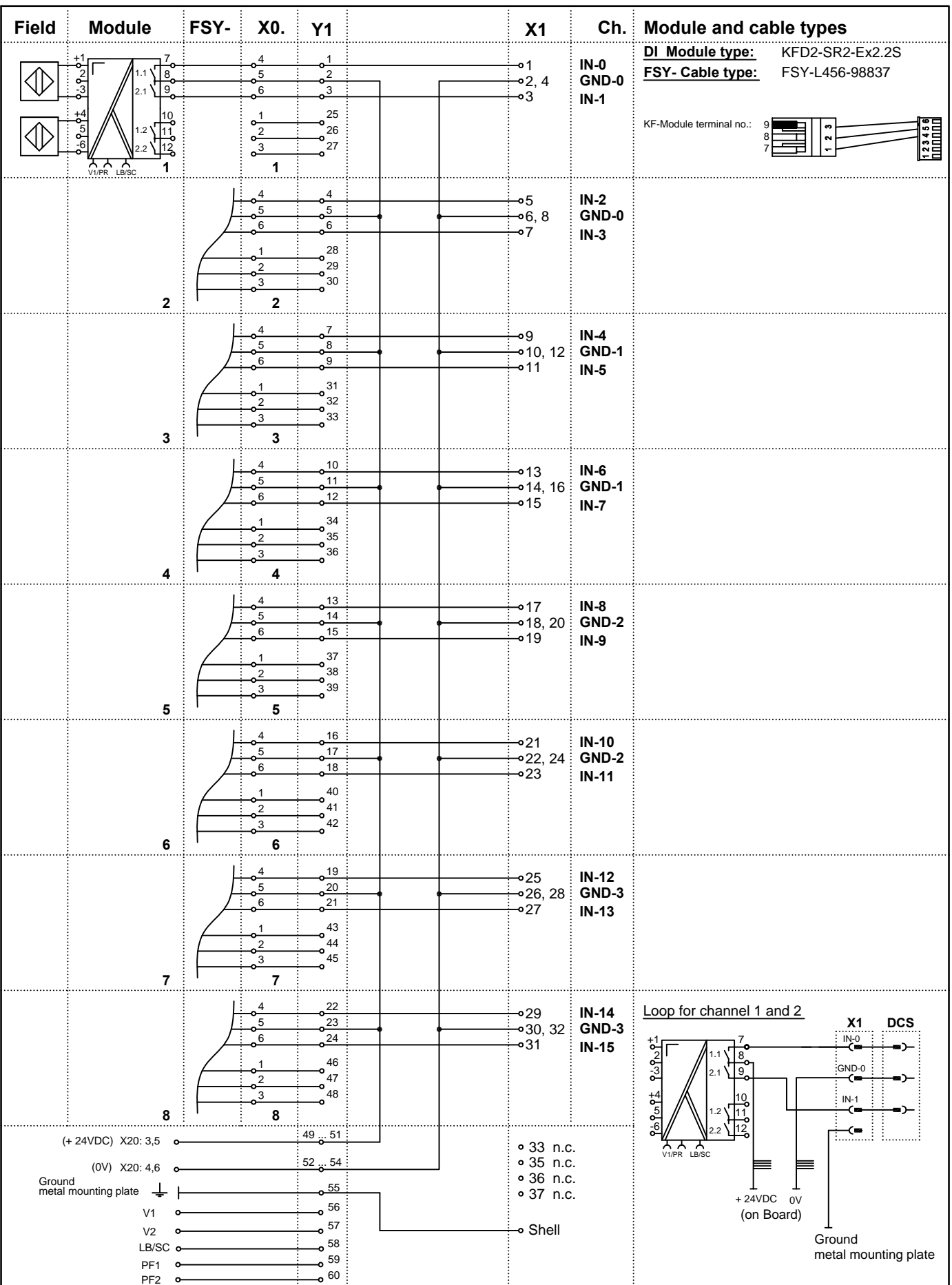
Name	Note
X1	37 pin female system connector DSUB
----	----
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure

Ordering information:		HAZ-RTP-IDX161-105281
Basic components:		Description
8 pieces:	KFD2-SR2-Ex2.2S (DI)	KF-Module type (function)
1 piece:	MB-HO-IDX161-103652	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-103653	Adapter board
1 piece:	KFD0-LC1-8M-99143	Label carrier 1
8 pieces:	FSY-L456-98837	Cabel tree connection KF-Module-Motherboard

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	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Digital Input 16 channels HAZ-RTP-IDX161-105281	06.03.00	Sb	Sb	Sb		
			Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
			Dept.:	PA-VP		Nr. 36-7224		
			Up date:	vB/DN 13.10.00		Replaces:	xxxxxx / 36-xxxx	
			MB-8U2	Scale:	1 : 2		of 2	

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06.03.00		SB	Sb	Sb/vB	
Date	S TZ	Off. in ch.	contr. techn.	contr. Norm	
Dept.: PA-VP		Nr. 36-7224			
Up date: 13.08.03		Replaces: xxxxxx / 36-xxxx		Sheet 2	
		Scale:		of 2	



PEPPERL+FUCHS
 Mannheim-Schönau

Motherboard unit
 Digital Input
 16 channels
HAZ-RTP-IDX161-105281

6. TC/TK-IDD321 Application

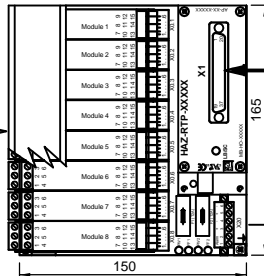
(32 channels DI 24 VDC)

	Page
HAZ-RTP-IDD321-105270	6- 1
Documentation	6- 2

Hazardous area (Zone 1) Field device Control room or hazardous area (Zone 2) Motherboard Control room non hazardous area DCS I/O



Sensors acc.
DIN EN 60 947-5-6
(NAMUR)
or switch contacts



System cable *1)

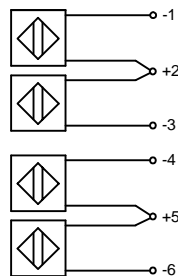
TC-IDD321
32 point
digital input module

Power supply 24 VDC (redundant) *
Alarm (dry contact NC)

*1) ... *2) see table

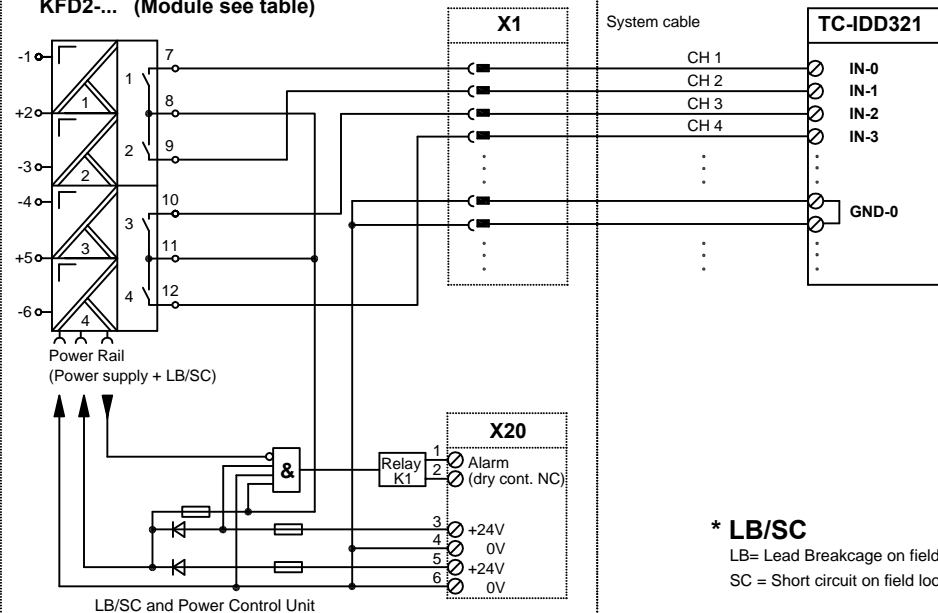
LOOP-DIAGRAM (4-channel modules)

Hazardous area (Zone 1) Field device Control room or hazardous area (Zone 2) Motherboard Control room non hazardous area DCS I/O



Transformer isolated barrier:

KFD2... (Module see table)



* LB/SC

LB= Lead Breakage on field loop!
SC = Short circuit on field loop!

Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-IDD321-105270	DI	KFD2-SRA-Ex4	HAZ-37xMx	---	

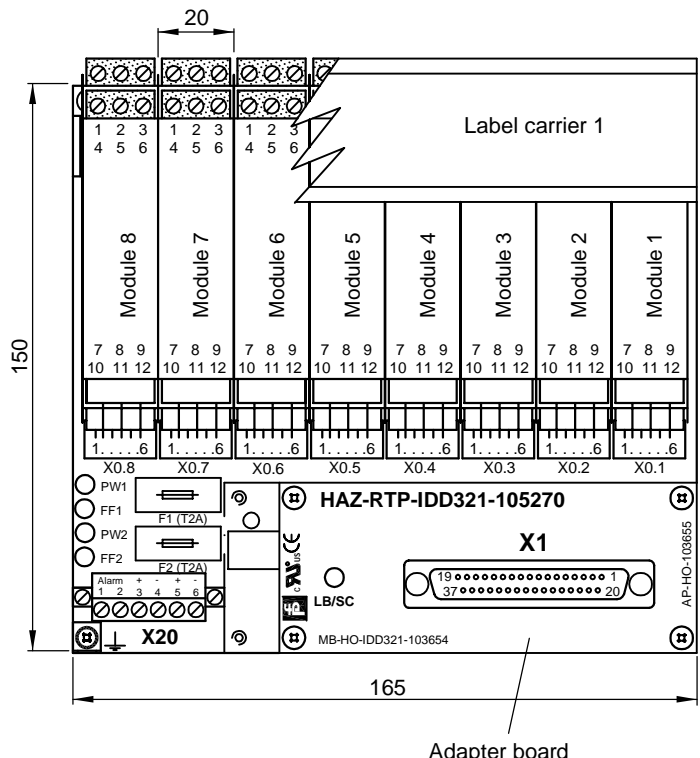
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PEPPERL+FUCHS
Mannheim-Schönau

APPLICATION FOR
Honeywell
1756 Rack IO Modules


21.02.03	KT	Sb.	Sb.	
Date	S TD	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA - VP		No. 36-6192A		
Up date:	Sb/Bro 26.03.04	Replaces: xxxxxx / 36-xxxx	Sheet 1 of 1	
		Scale:	1 : 5	of 1

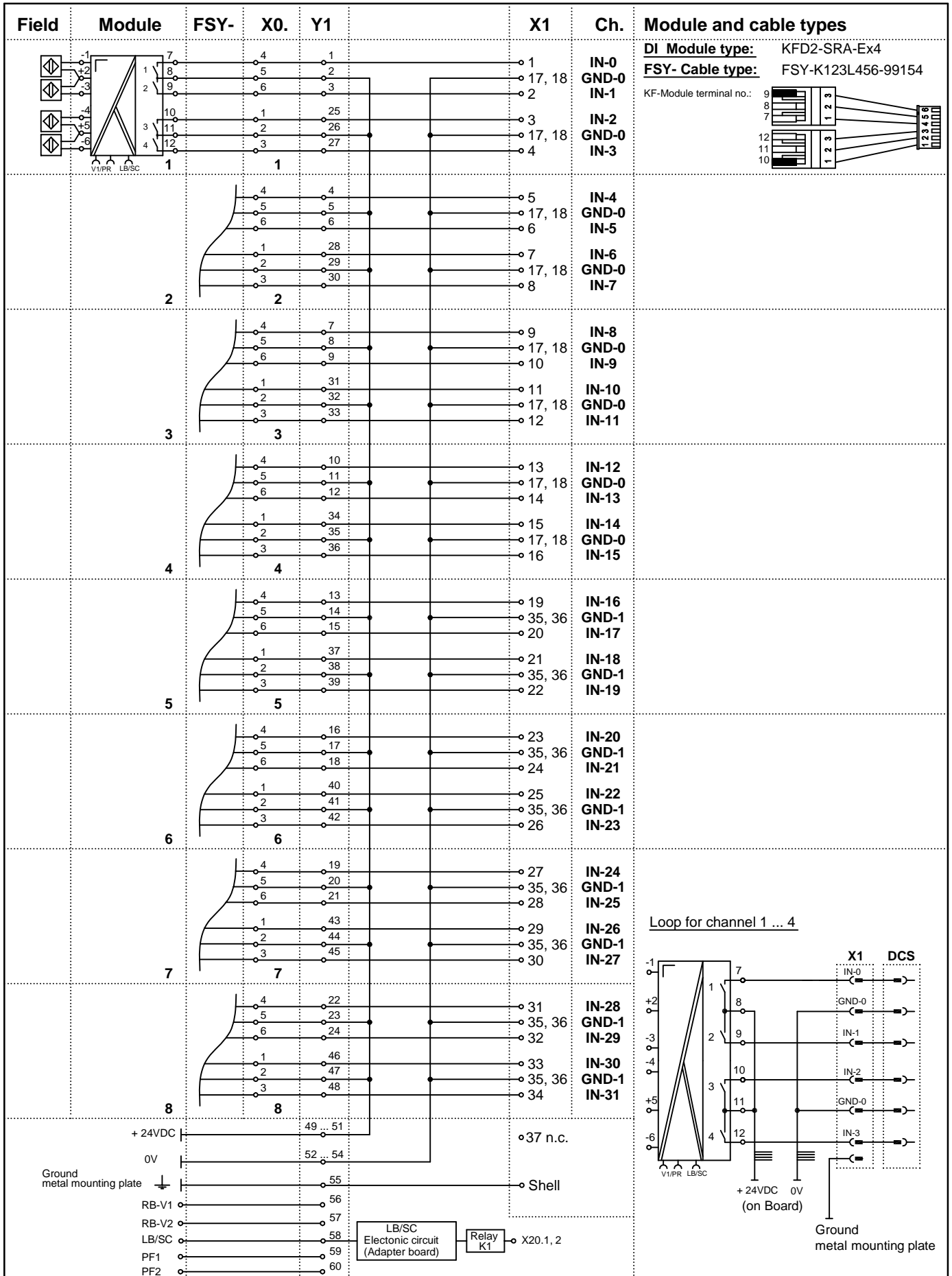


Name	Note
X1	37 pin female system connector DSUB
----	----
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,56A/13,5W

Ordering information:		HAZ-RTP-IDD321-105270
Basic components:		Description
8 pieces:	KFD2-SRA-Ex4 (DI)	KF-Module type (function)
1 piece:	MB-HO-IDD321-103654	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-103655	Adapter board
1 piece:	KFD0-LC1-8M-99143	Label carrier 1
8 pieces:	FSY-K123L456-99154	Cabel tree connection KF-Module-Motherboard

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	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Digital Input 32 channels HAZ-RTP-IDD321-105270	06.03.00	SB	SB	Sb/vB	
			Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
			Dept.: PA-VP		Nr. 36-7226A		
			vB Up date: 07.09.06		Replaces: xxxxxxx / 36-xxxx		Sheet 1
			MB-8U2		Scale: 1 : 2		of 2

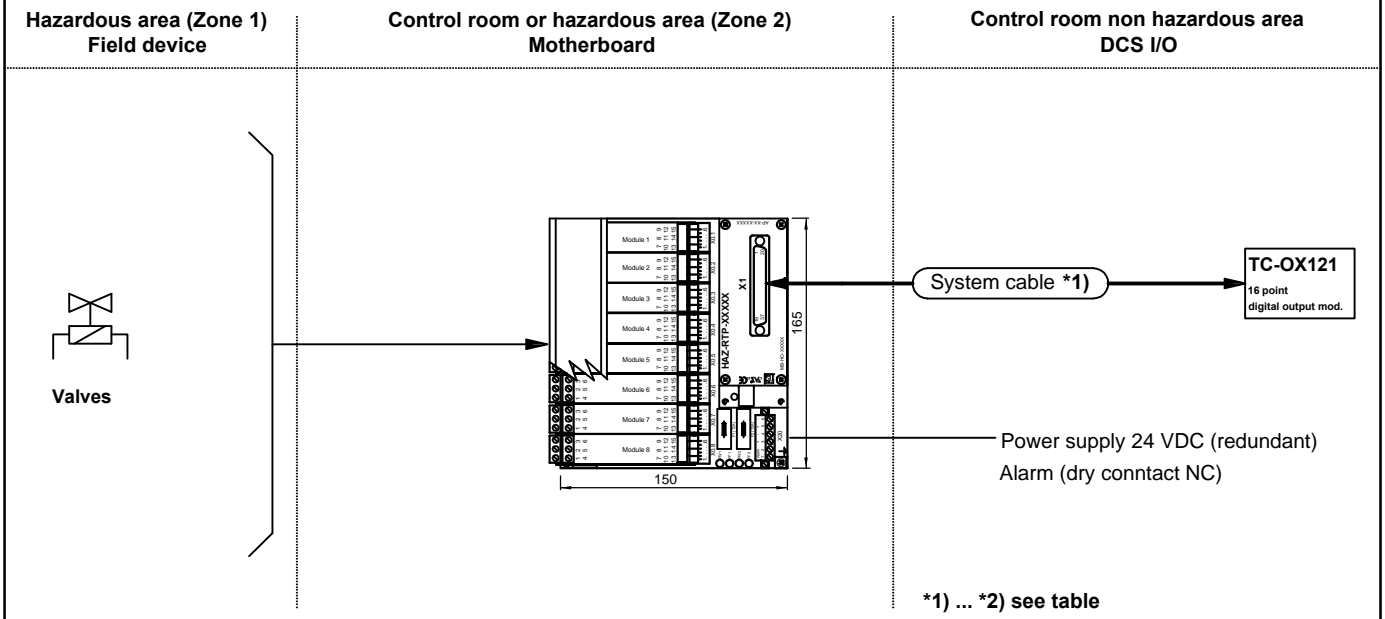


06.03.00		SB	Sb	Sb/vB	
Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA-VP		Nr. 36-7226A			
Up date: 07.09.06		Replaces: xxxxxx / 36-xxxx		Sheet 2	
		Scale:		of 2	

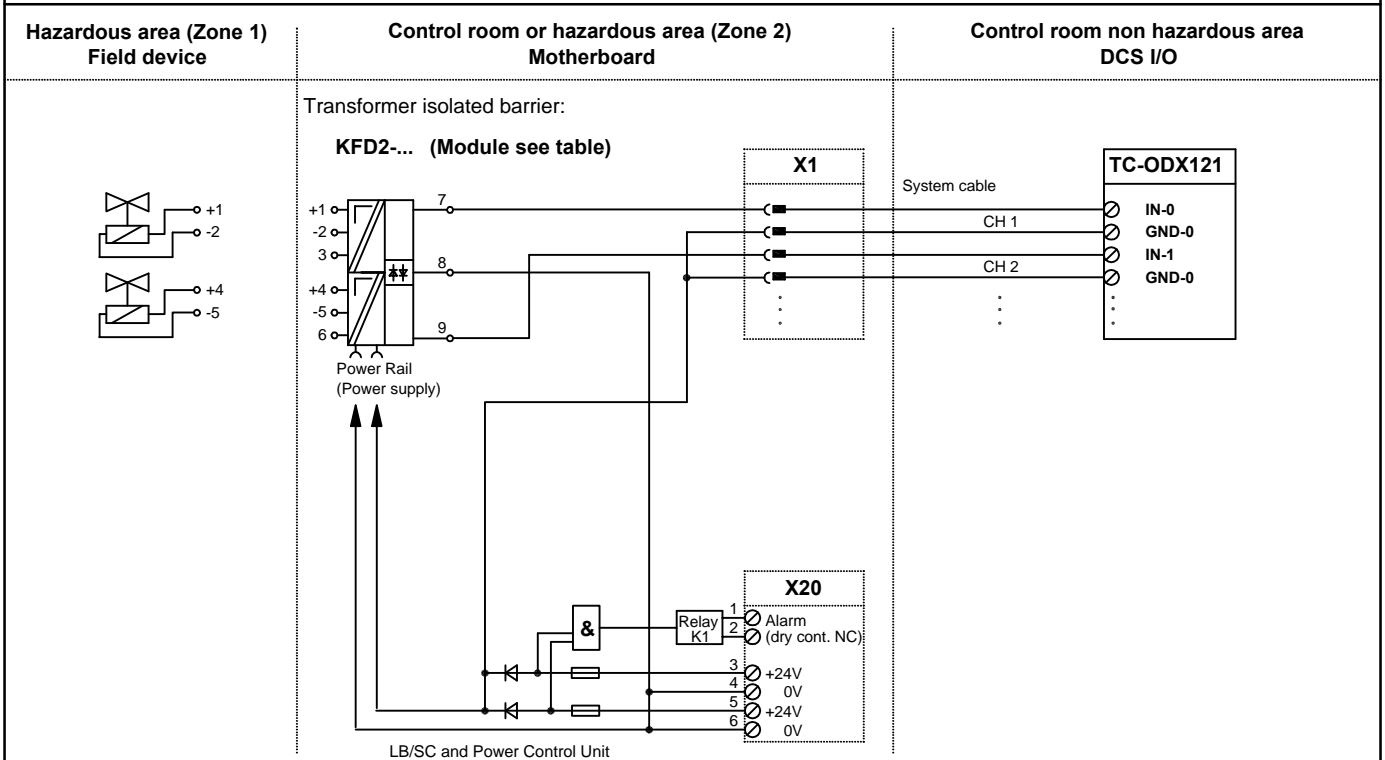
7. TC/TK-ODX121 Application

(16 channels DO 24 VDC)

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HAZ-RTP-ODX121-118258 (Not in commercial agreement)	7- 1
Documentation	7- 2




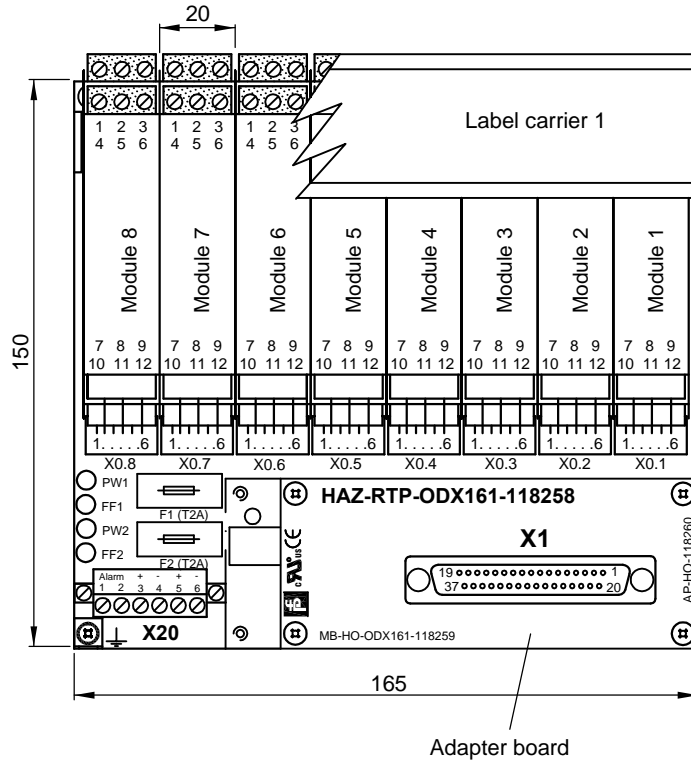
LOOP-DIAGRAM (2-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-ODX161-118258	DO	KFD2-SL2-Ex2.B	HAZ-37xMx	---	

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 PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR <h2>Honeywell</h2> <h3>1756 Rack IO Modules</h3>		21.02.03	KT	Sb.	Sb.			
			Date	S	TD	Off. in ch.	contr. techn.	contr. Norm.	
			Dept.: PA - VP		No. 36-6195A				
			Up date: 11.12.03		Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1		
			Scale: 1 : 5		of 1				

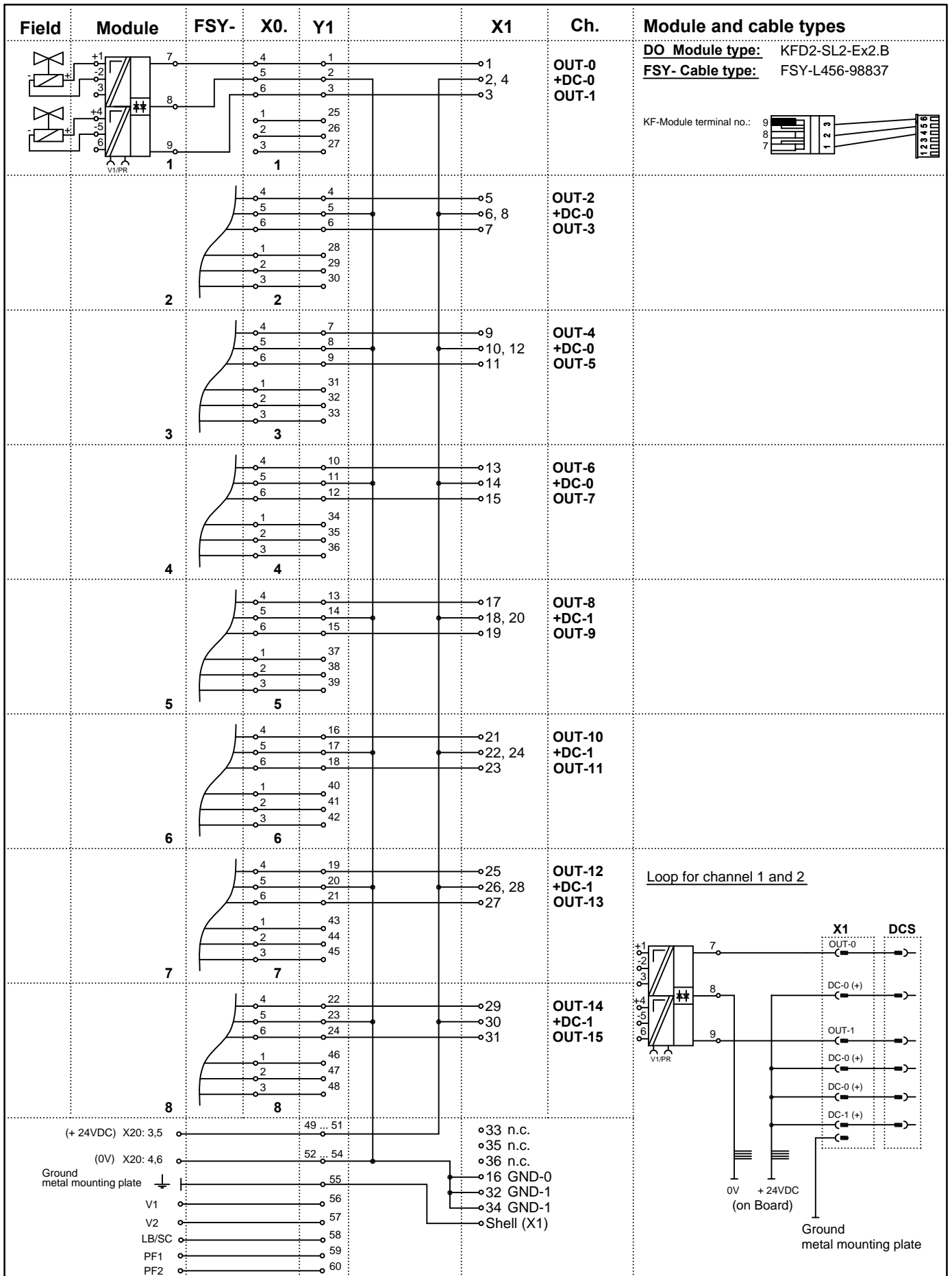


Name	Note
X1	37 pin female system connector DSUB
----	----
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure

Ordering information: HAZ-RTP-ODX161-118258	
Basic components:	Description
8 pieces: KFD2-SL2-Ex2.B (DO)	KF-Module type (function)
1 piece: MB-HO-ODX161-118259	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-118260	Adapter board
1 piece: KFD0-LC1-8M-99143	Label carrier 1
8 pieces: FSY-L456-98837	Cabel tree connection KF-Module-Motherboard

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PF	PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Digital Output 16 channels HAZ-RTP-ODX161-118258	04.03.02	SB	SB	Sb/vB
			Date	S TZ	Off. in ch.	contr. techn.
		Dept.: PA-VP	Nr. 36-7461			
		Up date: 03.05.04	Sb/Bro		Replaces: xxxxxx / 36-xxxx	
		MB-8U2	Scale:		1 : 2 of 2	



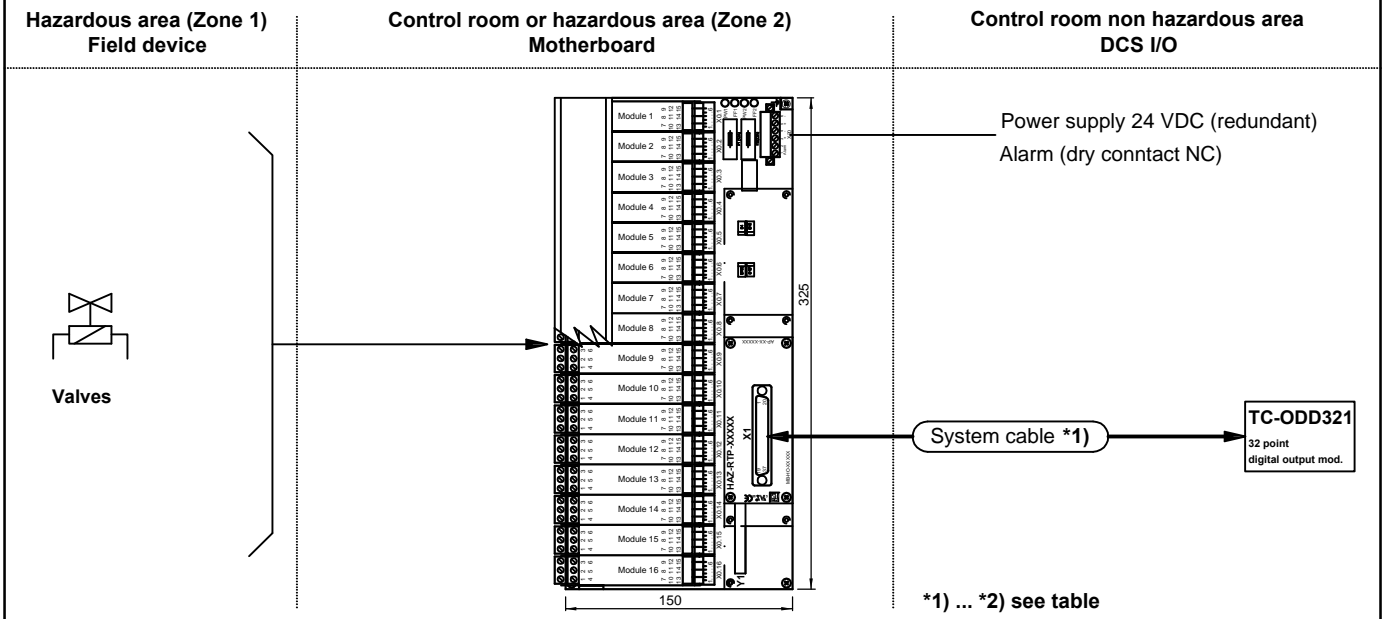
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	Motherboard unit		04.03.02	Sb	Sb	Sb/vB	
	Digital Output		Date	S	TZ	Off. in ch.	contr. techn.
	16 channels - one pick-off		Dept.: PA-VP		Nr. 36-7461		
	HAZ-RTP-ODX161-118258		Up date: 03.05.04	Sb/Bro	Replaces: xxxxxx / 36-xxxx	Sheet 2	
		MB-8U2	Scale:		of 2		

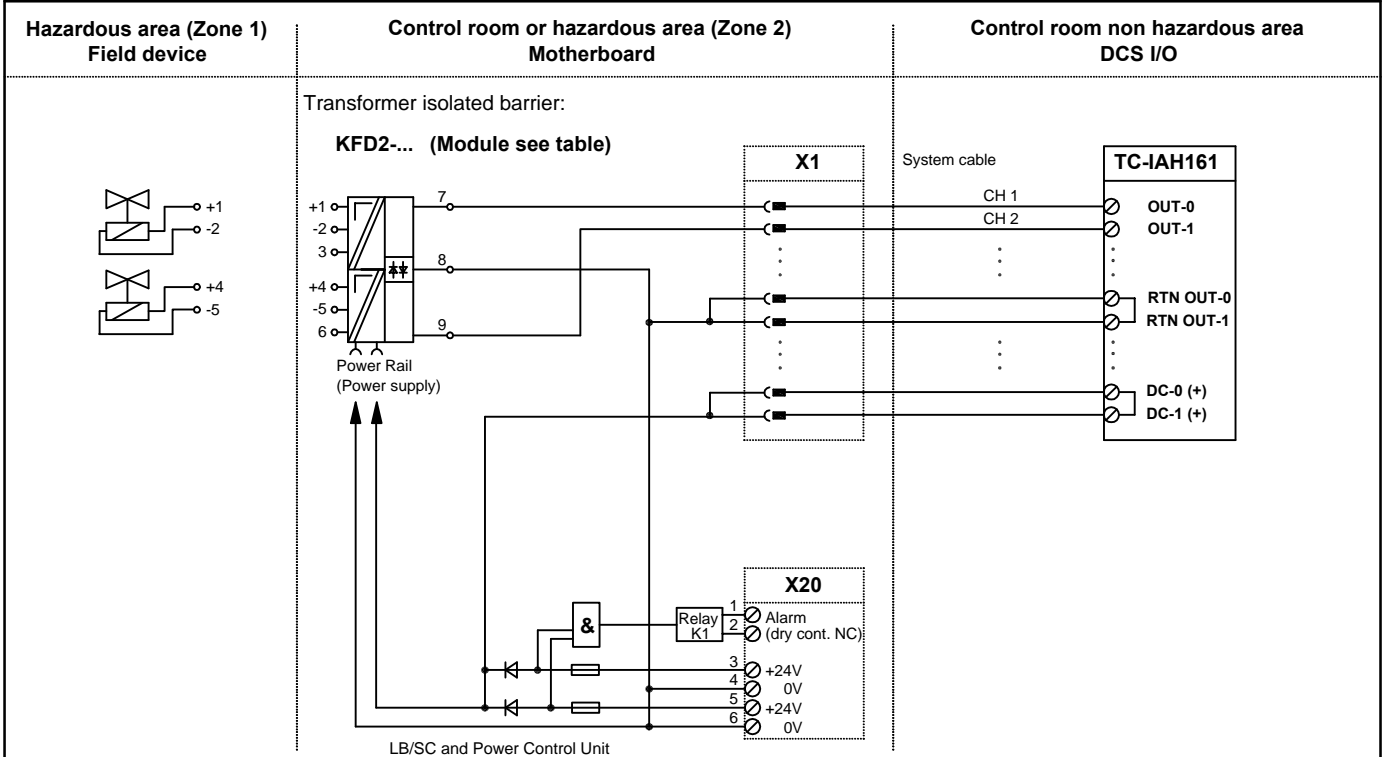
8. TC/TK-ODD321 Application

(32 channels DO 24 VDC)

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HAZ-RTP-ODD321-105271	8- 1
Documentation	8- 2



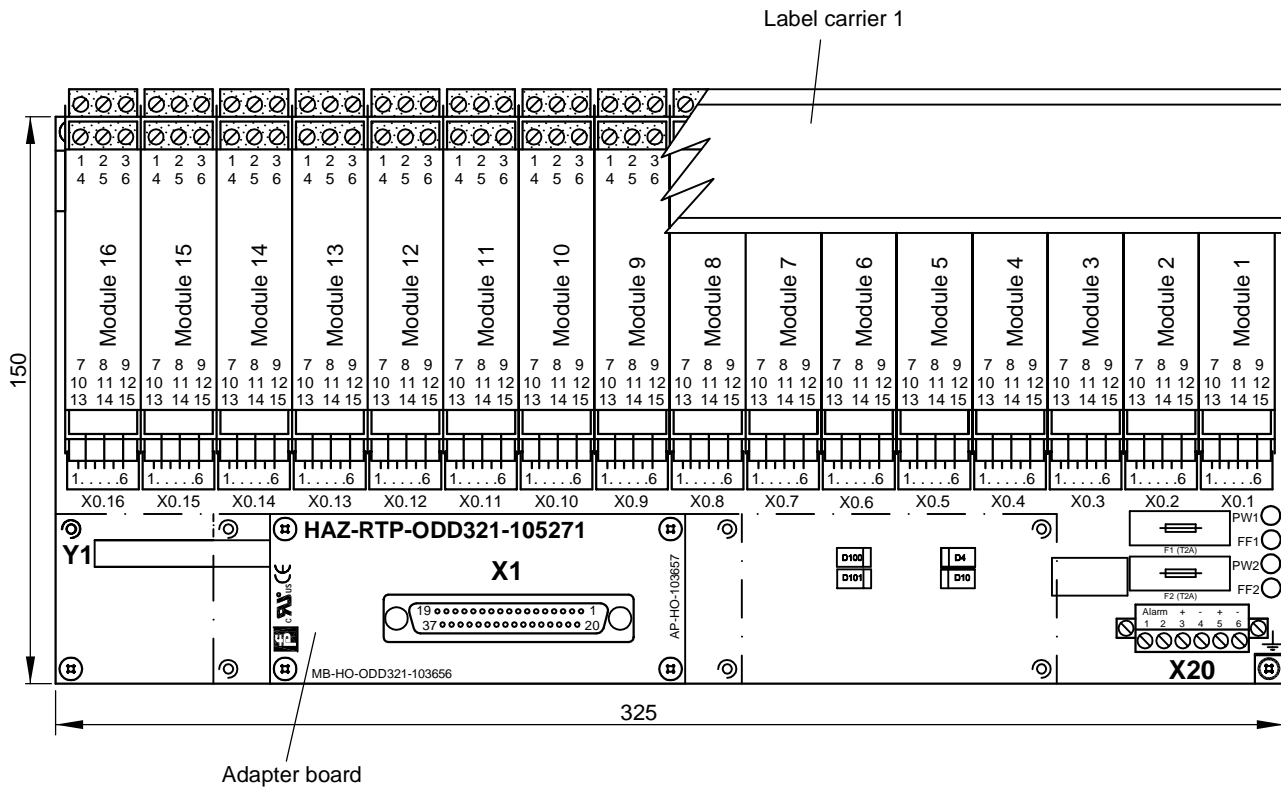
LOOP-DIAGRAM (2-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-ODD321-105271	DO	KFD2-SL2-Ex2.B	HAZ-37xMx	---	


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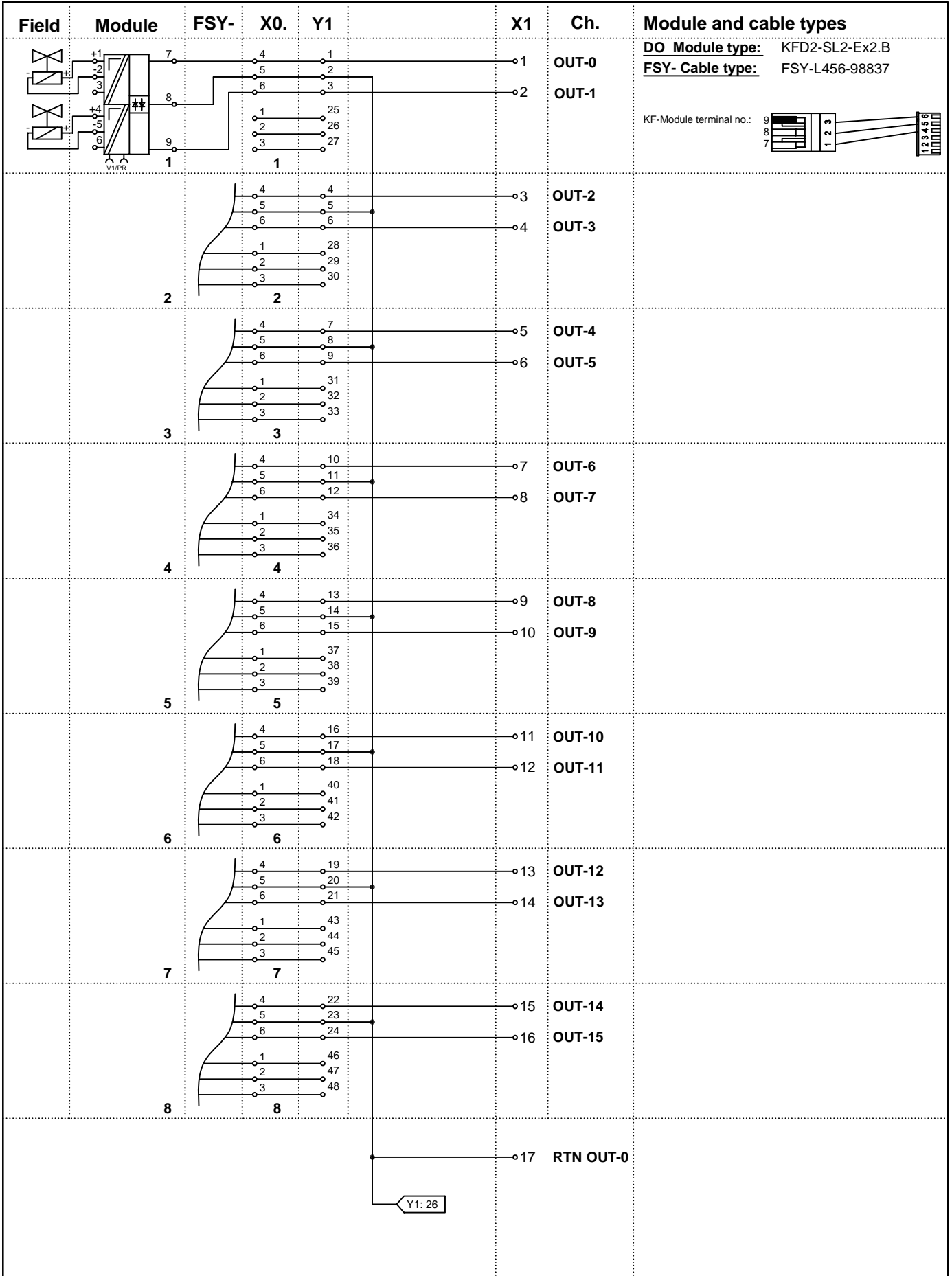
PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR <h2>Honeywell</h2> <h3>1756 Rack IO Modules</h3>		21.02.03	KT	Sb.	Sb.			
			Date	S	TD	Off. in ch.	contr. techn.	contr. Norm.	
			Dept.: PA - VP		No. 36-6194A				
			Up date:	Sb/Bro	Replaces:		Sheet 1		
	26.03.04	xxxxxx / 36-xxxx							
			Scale:	1 : 5		of 1			



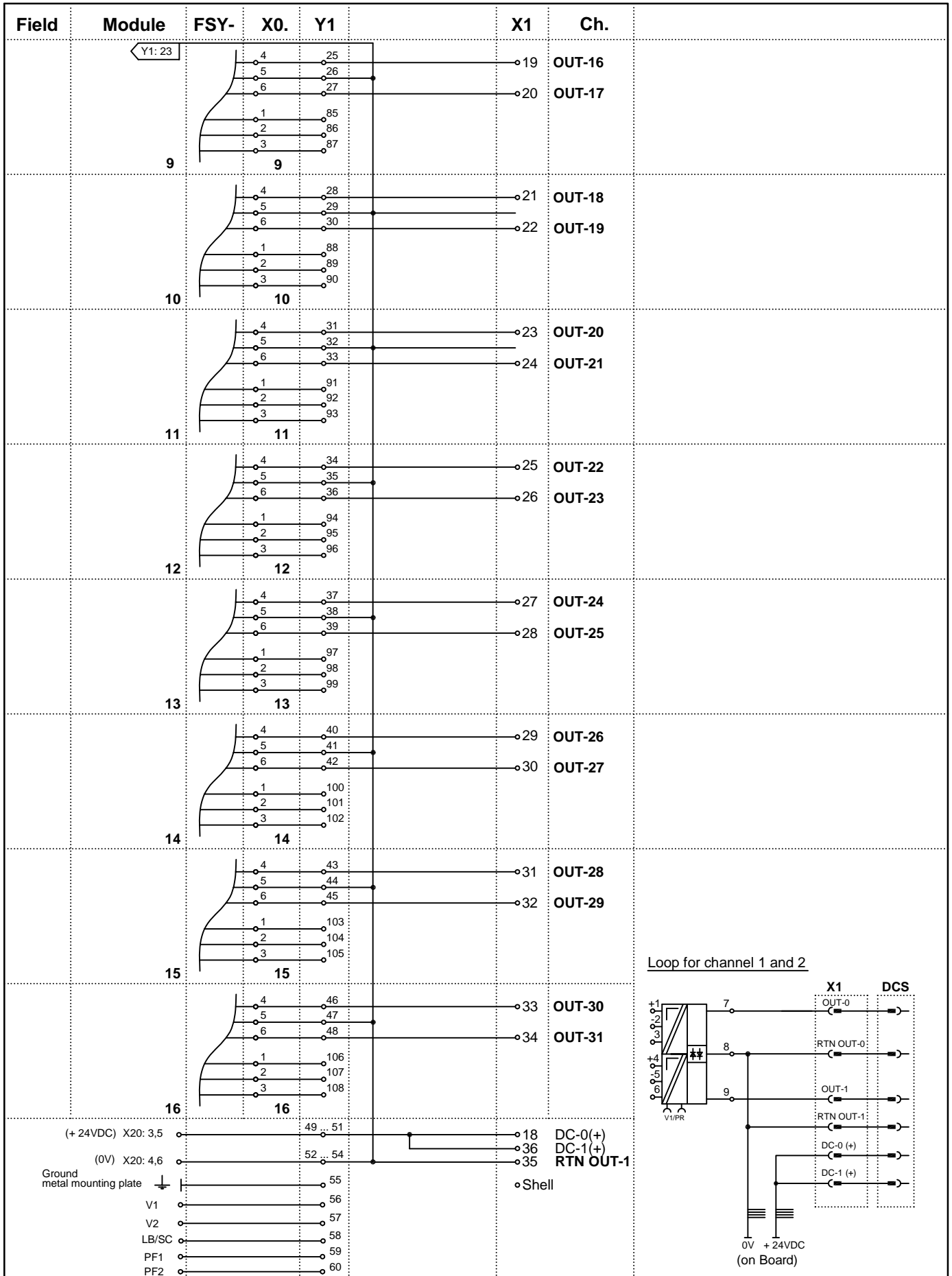
Name	Note
X1	37 pin female system connector DSUB
----	----
X0.1 16	6 pin male terminals for cable tree FSU....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/2A/48W

Ordering information: HAZ-RTP-ODD321-105271	
Basic components:	Description
16 pieces: KFD2-SL2-Ex2.B (DO)	KF-Module type (function)
1 piece: MB-HO-ODD321-103656	Motherboard without modules
composed by:	
1 piece: MB-16U5L-103681	Motherboard without modules, adapter board, FSU cable tree and Label carrier
1 piece: AP-HO-103657	Adapter board
1 piece: KFD0-LC1-16M-99144	Label carrier 1
16 pieces: FSU-L456-98837	Cabel tree connection KF-Module-Motherboard

	Motherboard unit Digital Output 32 channels - one pick-off HAZ-RTP-ODD321-105271	07.03.00	SB	SB	Sb/vB	
		Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
		Dept.: PA-VP	Nr. 36-7227A			
		vB Up date: 07.09.06	Replaces: xxxxxx / 36-xxxx		Sheet 1	
		MB-16U5L	Scale:	1 : 2		of 3



	Motherboard unit		07.03.00	SB	SB	Sb/vB	
	Digital Output		Date	S	TZ	Off. in ch.	contr. Norm
	32 channels - one pick-off		Dept.: PA-VP	Nr. 36-7227A			
	HAZ-RTP-ODD321-105271		Up date: 07.09.06	Replaces: xxxxxx / 36-xxxx		Sheet 2	
		MB-16U5L	Scale:		of 3		



07.03.00	SB	SB	Sb/vB	
Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA-VP	Nr. 36-7227A			
Up date: 07.09.06	Replaces: xxxxxx / 36-xxxx		Sheet 3	
MB-16U5L	Scale:		of 3	

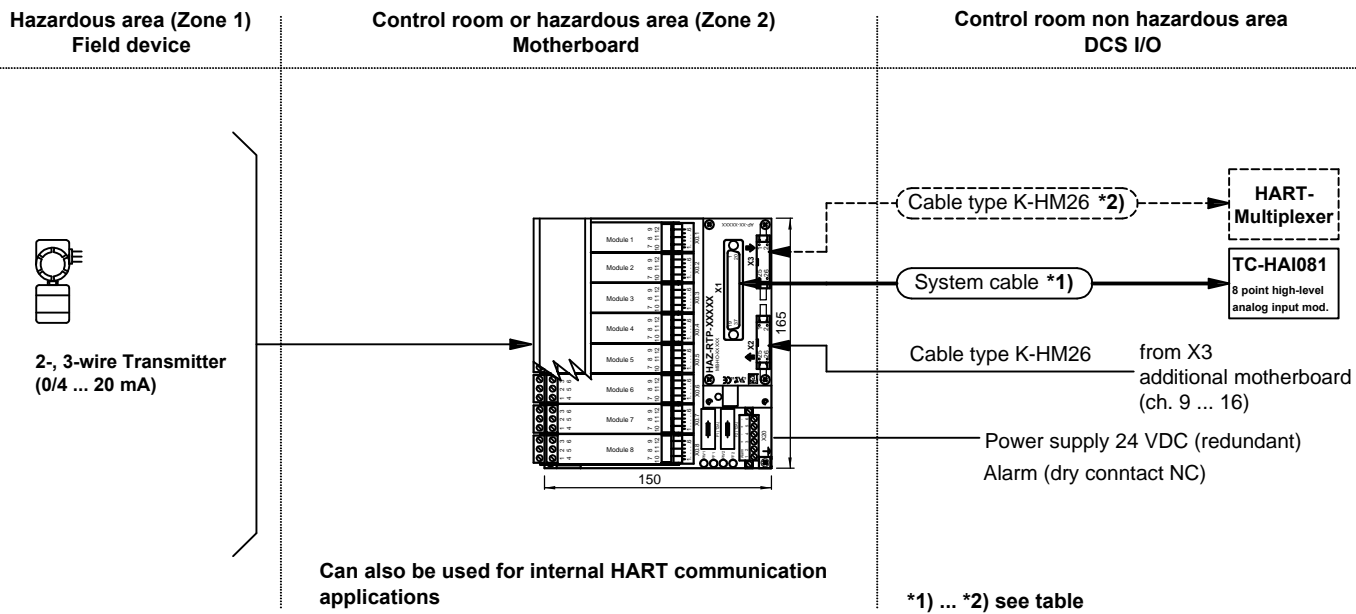


Motherboard unit
Digital Output
32 channels - one pick-off
HAZ-RTP-ODD321-105271

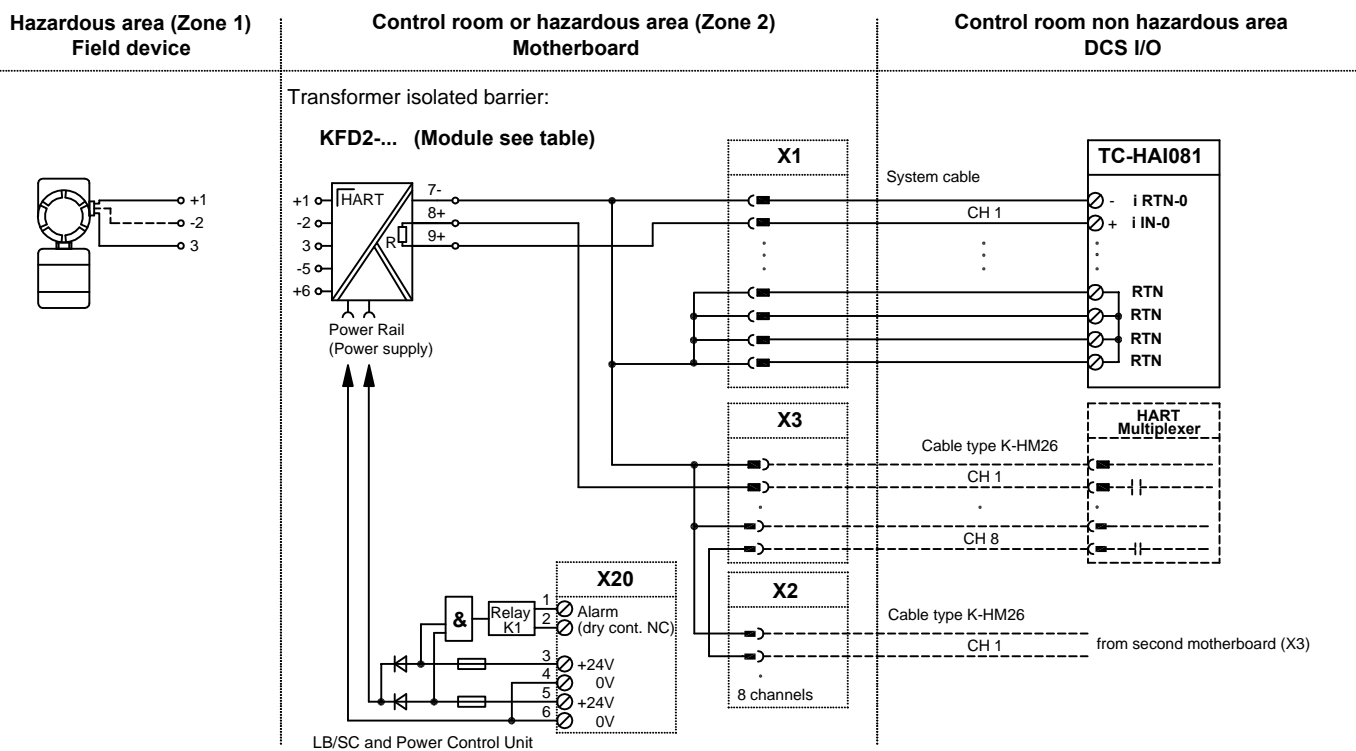
9. TC/TK-HAI081 Application

HART Integration to 1756 Rack IO Modules
(8 channels AI current 4 ... 20 mA)

	Page
HAZ-RTP-HAI081-127742	9- 1
Documentation	9- 2




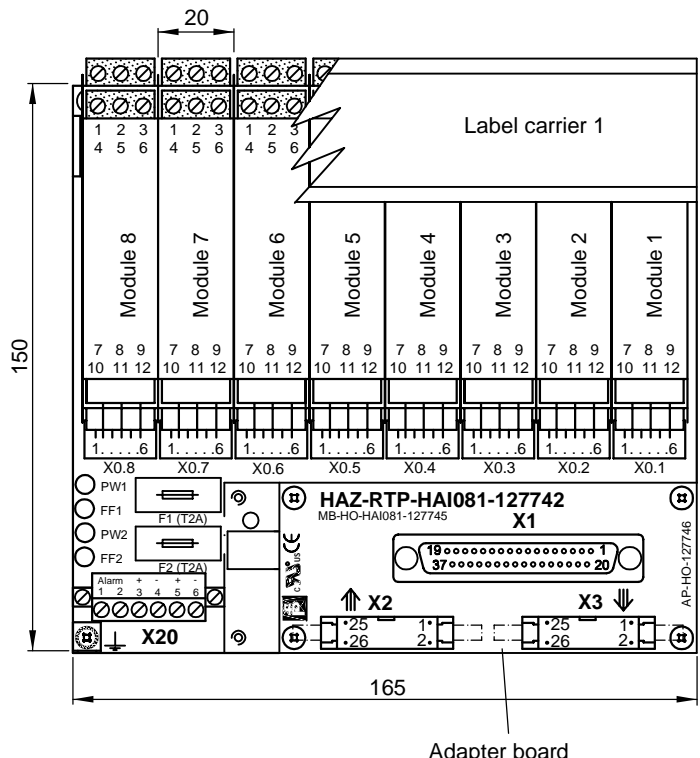
LOOP-DIAGRAM (1-channel modules)



Motherboard	Signal	Module	System cable *1)	HART communication *2)	Option
HAZ-RTP-HAI081-127742	AI, current	KFD2-STC4-Ex1	HAZ-37xMx	yes	

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 PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR			10.12.03	BK	Sb.	Sb.		
	Honeywell			Date	S	TD	Off. in ch.	contr. techn.	contr. Norm
	1756 Rack IO Modules			Dept.: PA - VP	No. 36-6031A				
				Up date: Sb/Br 26.03.04	Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1		

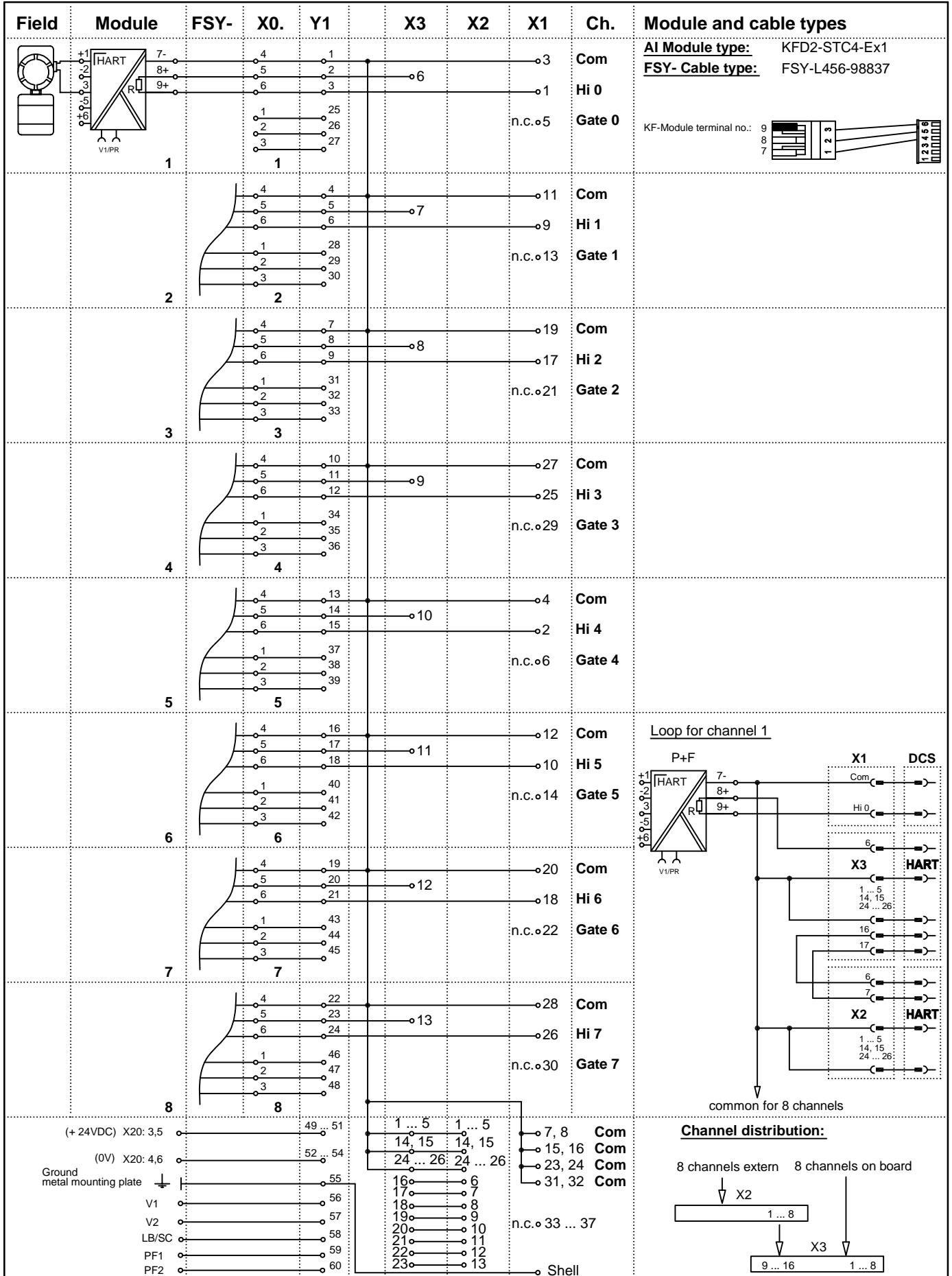


Name	Note
X1	37 pin female system connector DSUB
X2, X3	26 pin HART connector male
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

Ordering information:		HAZ-RTP-HAI081-127742
Basic components:		Description
8 pieces:	KFD2-STC4-Ex1 (AI)	KF-Module type (function)
1 piece:	MB-HO-HAI081-127745	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-127746	Adapter board
1 piece:	KFD0-LC1-8M-99143	Label carrier 1
8 pieces:	FSY-L456-98837	Cabel tree connection KF-Module-Motherboard

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 PEPPERL+FUCHS Mannheim-Schönau	Motherboard unit Analog Input + HART 8 channels HAZ-RTP-HAI081-127742	28.01.04		BK	Sb	Sb		
		Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm	
		Dept.: PA-VP	vB/D6			Nr. 36-7590D		
		Up date: 16.04.07	Replaces: xxxxxx / 36-xxxx			Sheet 1		
	MB-8U2	Scale: 1 : 2		of 2				

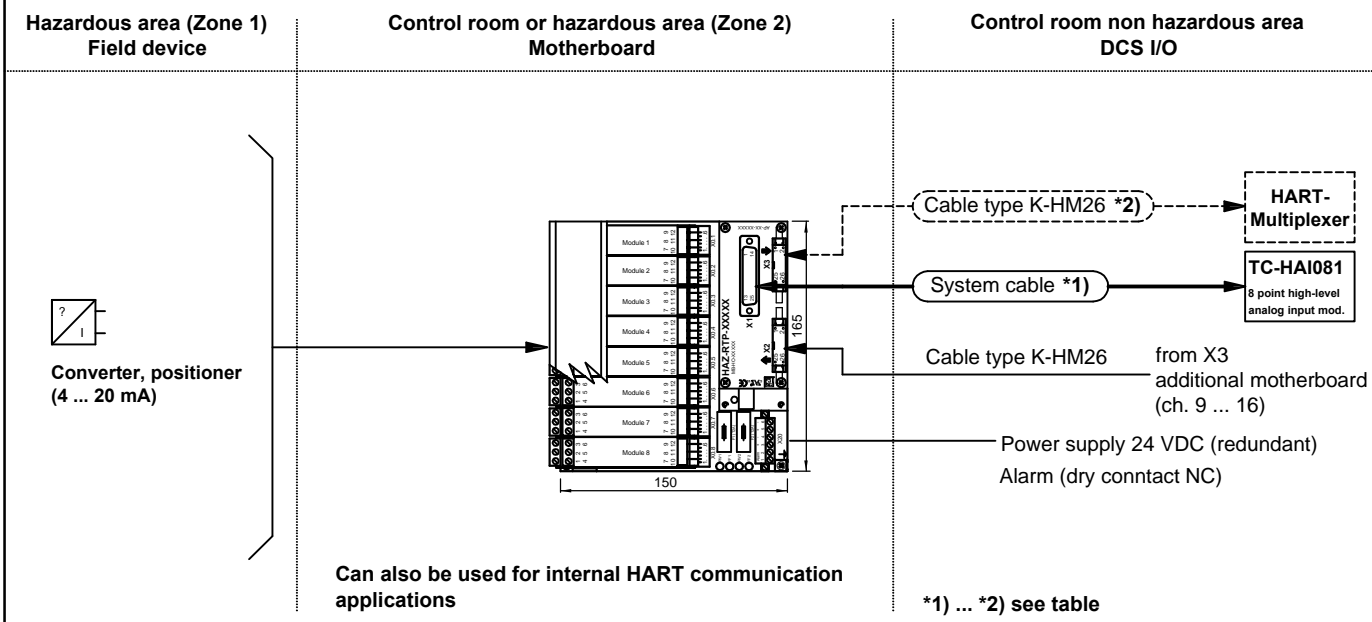


<p>PEPPERL+FUCHS Mannheim-Schönau</p>	Motherboard unit Analog Input + HART 8 channels HAZ-RTP-HAI081-127742					
	28.01.04		BK	Sb	Sb	
	Date	S	TZ	Off. in ch.	contr. techn.	contr. Norm
	Dept.: PA-VP	Nr. 36-7590D				
Up date: 16.04.07	vB/D6			Replaces: xxxxxx / 36-xxxx		
MB-8U2	Scale: 1 : 2			Sheet 2 of 2		

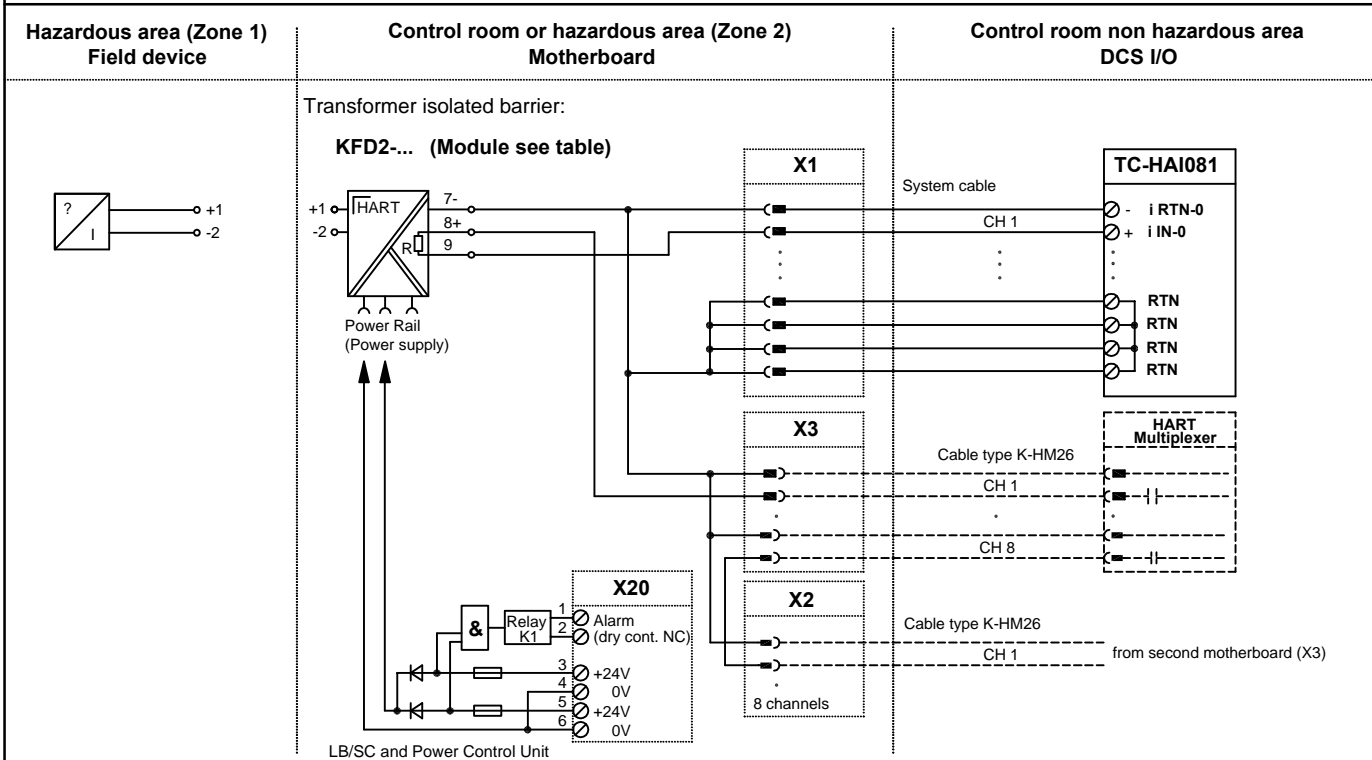
10. TC/TK-HAO081 Application

HART Integration to 1756 Rack IO Modules
(8 channels AO current 4 ... 20 mA)

	Page
HAZ-RTP-HAO081-132002	10- 1
Documentation	10- 2



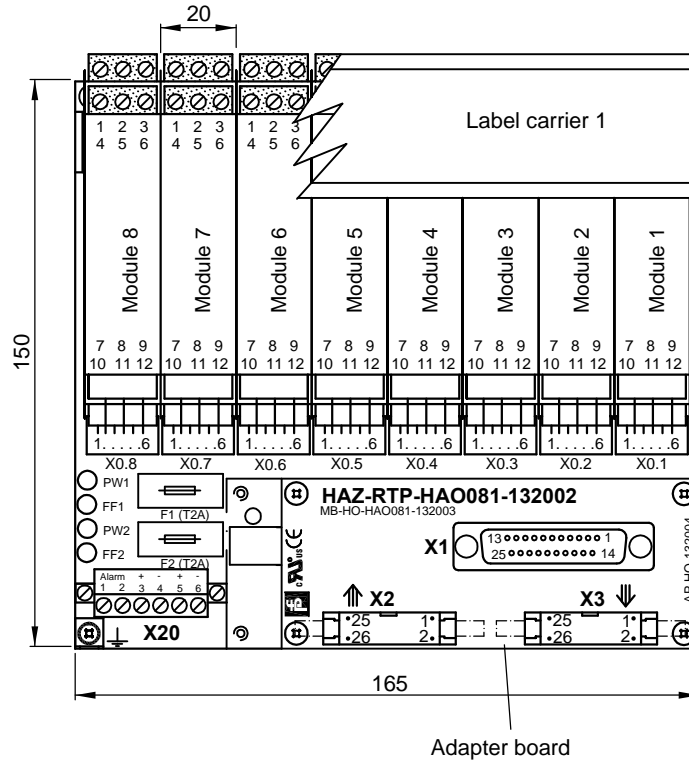
LOOP-DIAGRAM (1-channel modules)



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

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PEPPERL+FUCHS Mannheim-Schönau	APPLICATION FOR			29.03.04	Bro	Sb.	Sb.		
	Honeywell			Date	S	TD	Off. in ch.	contr. techn.	contr. Norm
	1756 Rack IO Modules			Dept.: PA - VP		No. 36-6032			
				Up date: xx.xx.xx	Replaces: xxxxxx / 36-xxxx		Sheet 1 of 1		

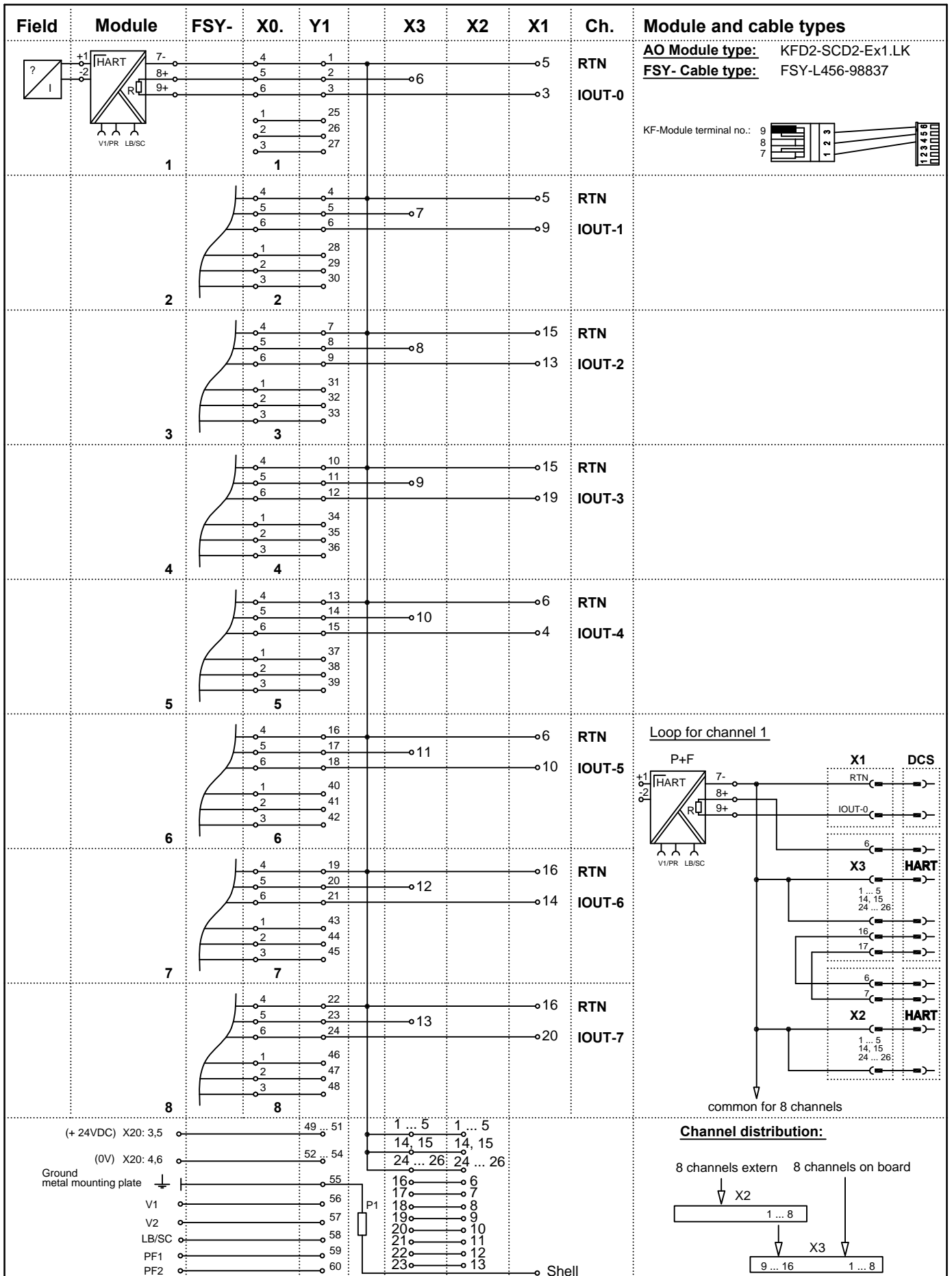


Name	Note
X1	25 pin female system connector DSUB
X2, X3	26 pin HART connector male
X0.1 8	6 pin male terminals for cable tree FSY....
X20.3 6	Power supply screw terminals
X20.1, X20.2	Alarm screw terminal
F1, F2	Fuse
PW1, PW2, FF1, FF2	LEDs for power and power failure
Power consumption	24VDC/0,84A/20W

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

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



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PEPPERL+FUCHS
Mannheim-Schönau

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

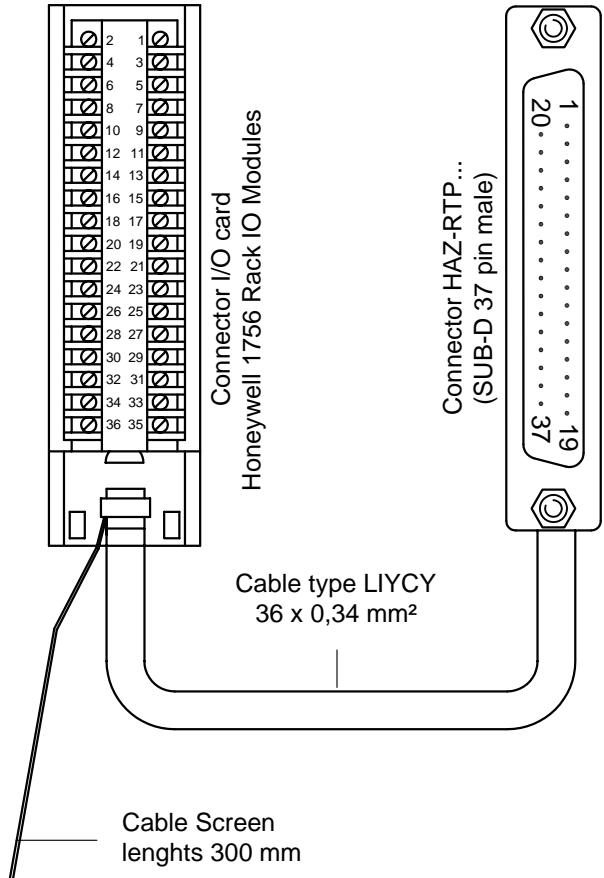
26.03.04	Bro	Sb	Sb	
Date	S	TZ	Off. in ch.	contr. Norm
Dept.: PA-VP	Nr. 36-7632			
Up date: xx.xx.xx	Replaces: xxxxxx/36-xxxx		Sheet 2	
Scale: -	of 2			

11. Accessories

	Page
System cable HAZ-37-xMx.....	11- 1
System cable HAZ-25-xMx.....	11- 2
Samples of cabinet assembly.....	11- 3
Cables for the HART Multiplexer-System.....	11- 5

Pinout Honeywell 1756 Rack IO Modules system cable

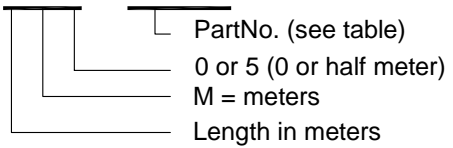
cable type LIYCY 36x0,34mm ²		
Color code	SUB-D37(HAZ 37) (Male)	I/O Terminal block
white	1	1
brown	2	2
green	3	3
yellow	4	4
grey	5	5
pink	6	6
blue	7	7
red	8	8
black	9	9
violet	10	10
grey/pink	11	11
red/blue	12	12
white/green	13	13
brown/green	14	14
white/yellow	15	15
yellow/brown	16	16
white/grey	17	17
grey/brown	18	18
white/pink	19	19
pink/brown	20	20
white/blue	21	21
brown/blue	22	22
white/red	23	23
brown/red	24	24
white/black	25	25
brown/black	26	26
grey/green	27	27
yellow/grey	28	28
pink/green	29	29
yellow/pink	30	30
green/blue	31	31
yellow/blue	32	32
green/red	33	33
yellow/red	34	34
green/black	35	35
yellow/black	36	36
NC	37	---




PartNo.	Honeywell 1756 Rack IO Modules RTP HAZ-RTP cables
198869	HAZ-37-xMx-198869
133679	HAZ-37-0M5-133679
131739	HAZ-37-1M0-131739
131740	HAZ-37-1M5-131740
131741	HAZ-37-2M0-131741
131742	HAZ-37-2M5-131742
131743	HAZ-37-3M0-131743
131744	HAZ-37-3M5-131744
131745	HAZ-37-4M0-131745
131746	HAZ-37-4M5-131746
131747	HAZ-37-5M0-131747
131748	HAZ-37-5M5-131748
131749	HAZ-37-6M0-131749
131750	HAZ-37-6M5-131750
131751	HAZ-37-7M0-131751
131752	HAZ-37-7M5-131752
131753	HAZ-37-8M0-131753
131754	HAZ-37-8M5-131754
131755	HAZ-37-9M0-131755
131756	HAZ-37-9M5-131756
131738	HAZ-37-10M0-131738

Type code:

HAZ - 37 - x M x - XXXXX

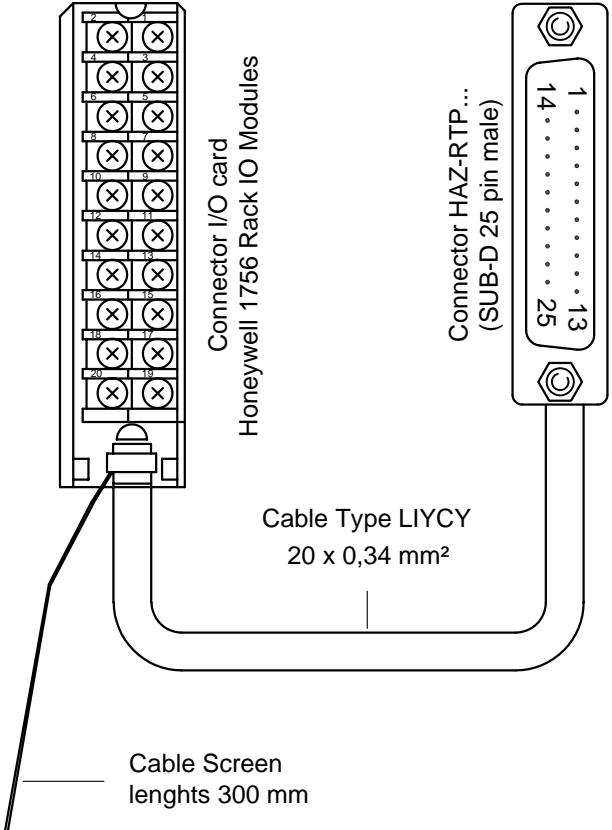


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	Pinout System cable Honeywell 1756 Rack IO Modules	01.02.01	KT	Sb.		
		Date	S TD	Off. in ch.	contr. techn.	contr. Norm
		Dept.: PA - VP vB/D6 Up date: 07.02.08		No. 36-6066F1 Replaces: xxxxxx / 36-xxxx		Sheet 1
		Scale:		of 1		

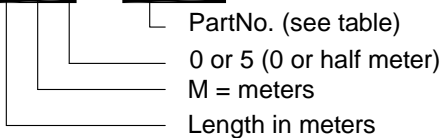
Pinout Honeywell 1756 Rack IO Modules system cable

cable type LIYCY 20x0,34mm ²		
Color code	SUB-D25 (HAZ 25) (Male)	I/O Terminal block
white	1	1
brown	2	2
green	3	3
yellow	4	4
grey	5	5
pink	6	6
blue	7	7
red	8	8
black	9	9
violet	10	10
grey/pink	11	11
red/blue	12	12
white/green	13	13
brown/green	14	14
white/yellow	15	15
yellow/brown	16	16
white/grey	17	17
grey/brown	18	18
white/pink	19	19
pink/brown	20	20
NC	21	---
NC	22	---
NC	23	---
NC	24	---
NC	25	---
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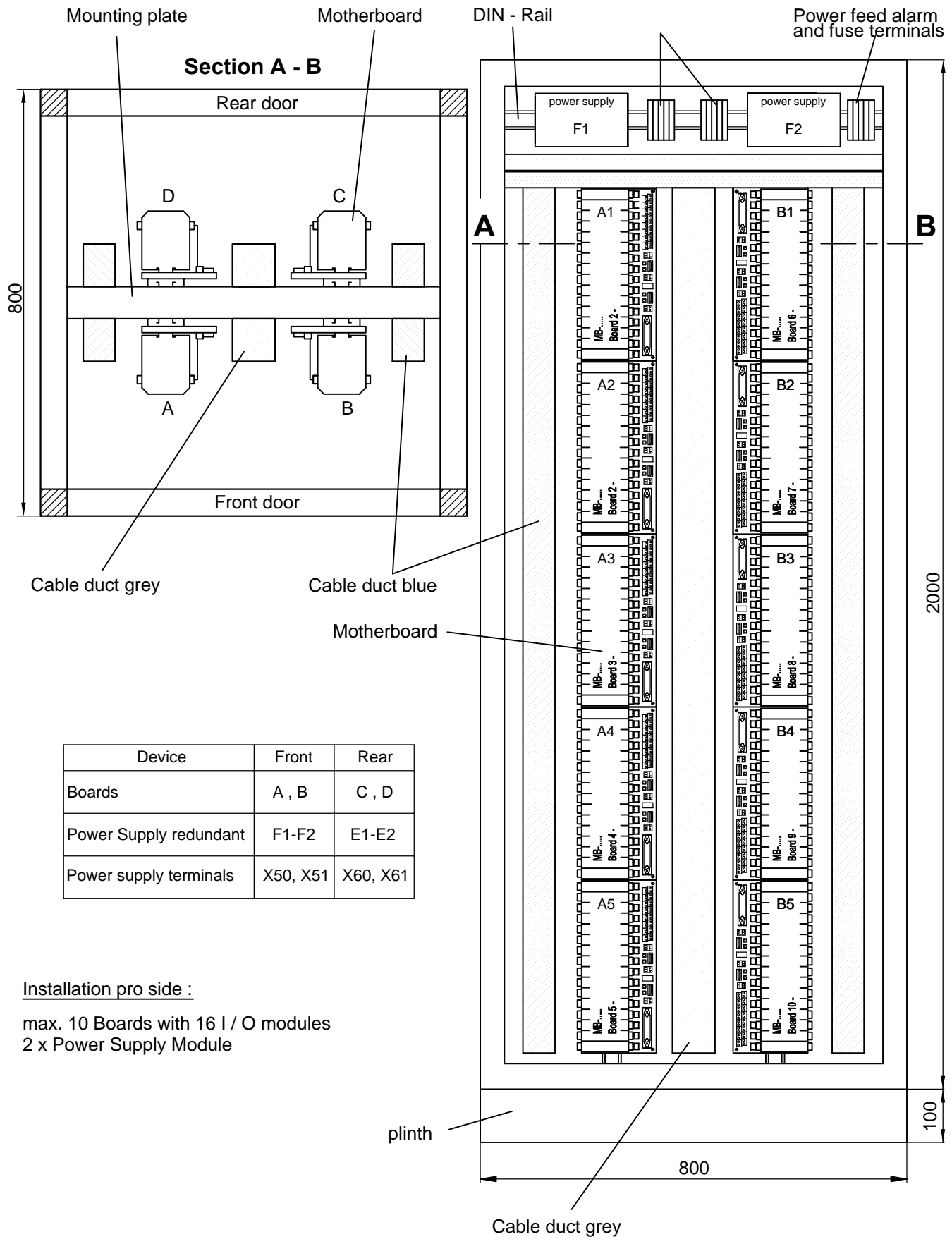
PartNo.	Honeywell 1756 Rack IO Modules RTP HAZ-RTP cables
198868	HAZ-25-xMx-198868
133678	HAZ-25-0M5-122678
131720	HAZ-25-1M0-131720
131721	HAZ-25-1M5-131721
131722	HAZ-25-2M0-131722
131723	HAZ-25-2M5-131723
131724	HAZ-25-3M0-131724
131725	HAZ-25-3M5-131725
131726	HAZ-25-4M0-131726
131727	HAZ-25-4M5-131727
131728	HAZ-25-5M0-131728
131729	HAZ-25-5M5-131729
131730	HAZ-25-6M0-131730
131731	HAZ-25-6M5-131731
131732	HAZ-25-7M0-131732
131733	HAZ-25-7M5-131733
131734	HAZ-25-8M0-131734
131735	HAZ-25-8M5-131735
131736	HAZ-25-9M0-131736
131737	HAZ-25-9M5-131737
131719	HAZ-25-10M0-131719

Type code:
HAZ - 25 - x M x - XXXXX



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	Pinout System cable Honeywell 1756 Rack IO Modules	01.02.01		KT	Sb			
		Date	S	TD	Off. in ch.	contr. techn.	contr. Norm	
		Dept.: PA-VP	No. 36-6066E2					
		Up date: 29.01.08	vB/D6			Replaces: XXXXXX / 36-XXXX		Sheet 2
			Scale: -:-		of 3			

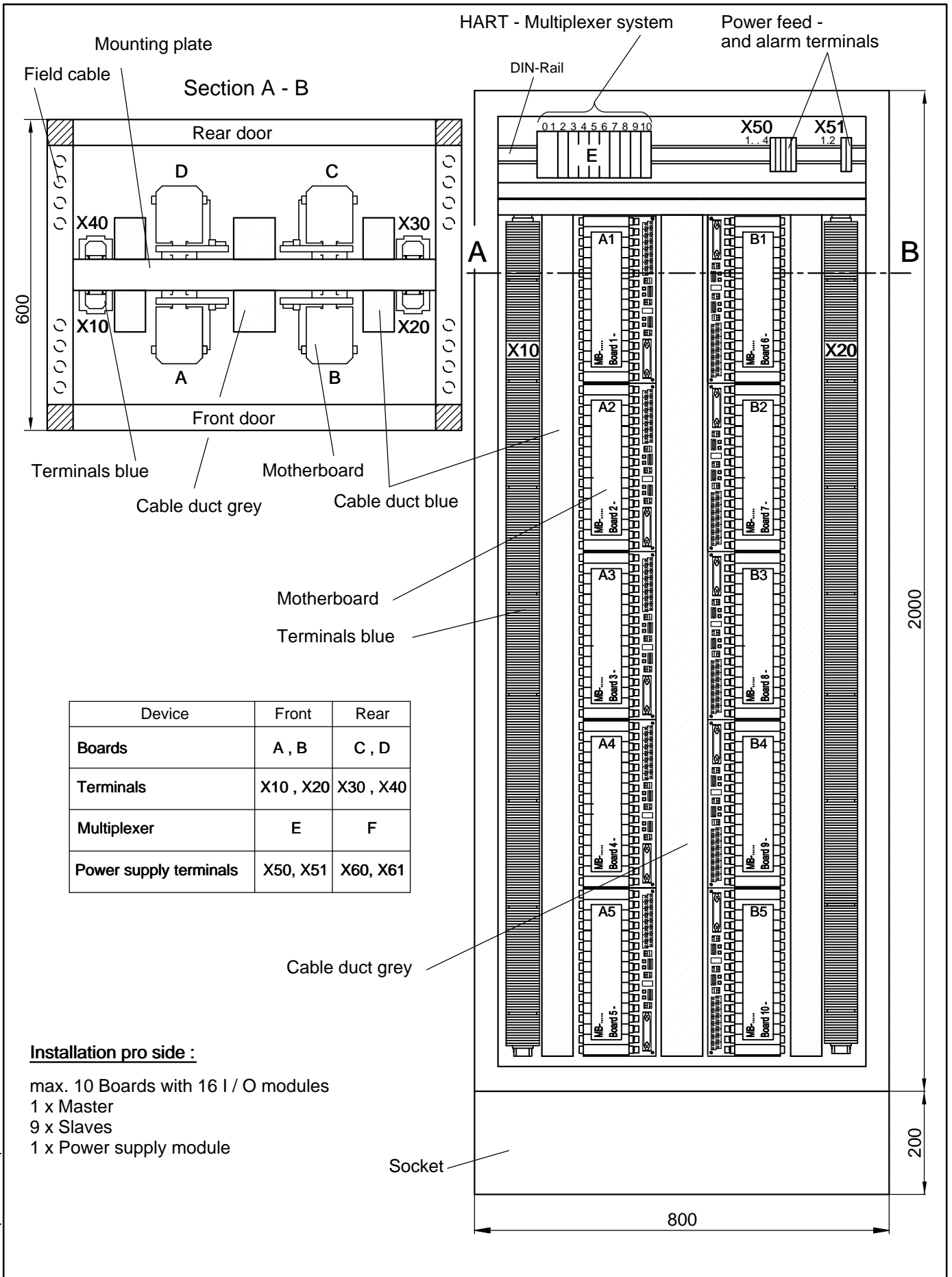


Device	Front	Rear
Boards	A , B	C , D
Power Supply redundant	F1-F2	E1-E2
Power supply terminals	X50, X51	X60, X61

Installation pro side :
 max. 10 Boards with 16 I / O modules
 2 x Power Supply Module

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 PEPPERL+FUCHS Mannheim-Schönau	Cabinet assembly with motherboards and redundant Power Supply		14.03.00		DN	MB	MB	
	Date	S	TD	Off. in ch.	contr. techn.	contr. Norm		
	Dept.:	PA-VP		No. TAB298		Ind. A		
	Up date:	xx.xx.xx		Replaces: -		Sheet x		
			Scale: 1 : 10		of x			




Device	Front	Rear
Boards	A , B	C , D
Terminals	X10 , X20	X30 , X40
Multiplexer	E	F
Power supply terminals	X50, X51	X60, X61

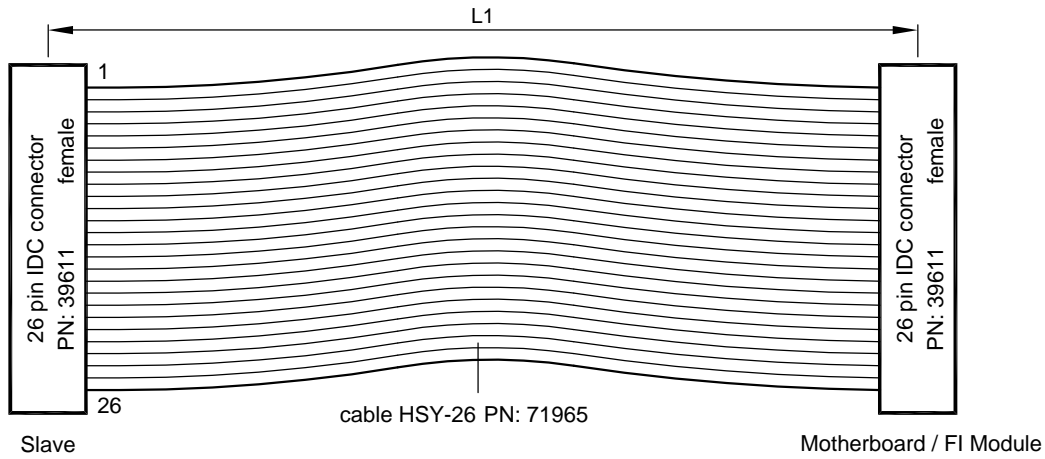
Installation pro side :

- max. 10 Boards with 16 I / O modules
- 1 x Master
- 9 x Slaves
- 1 x Power supply module

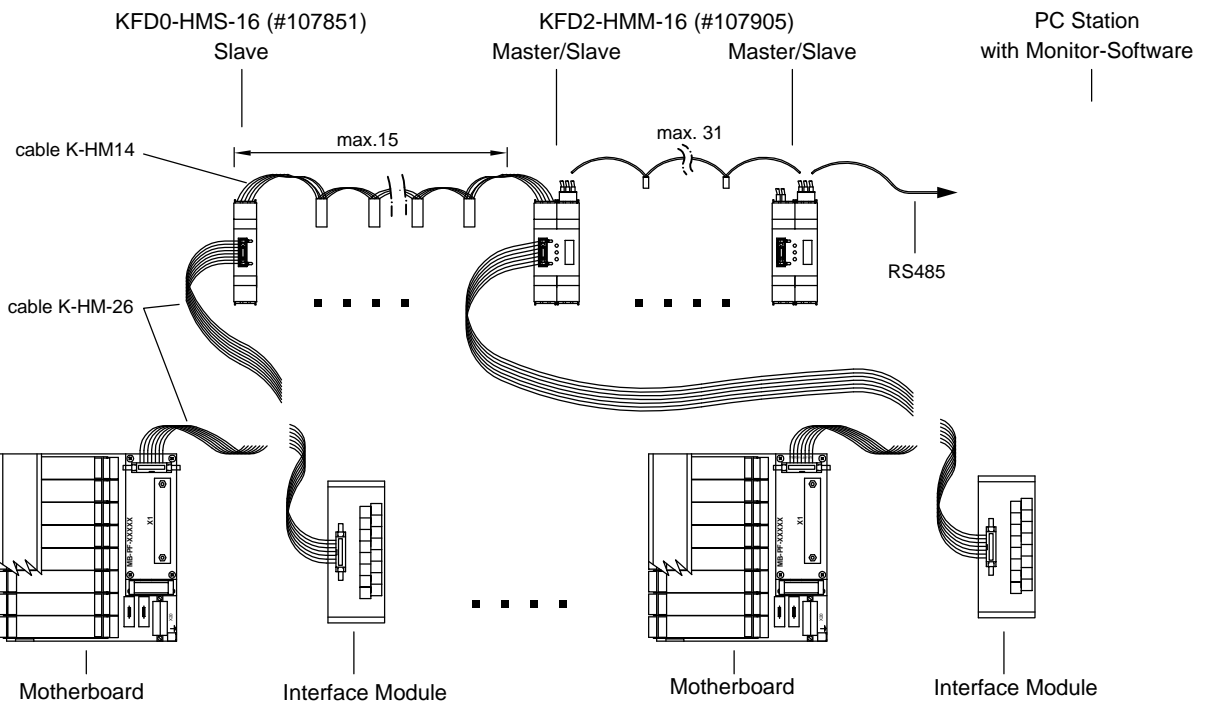
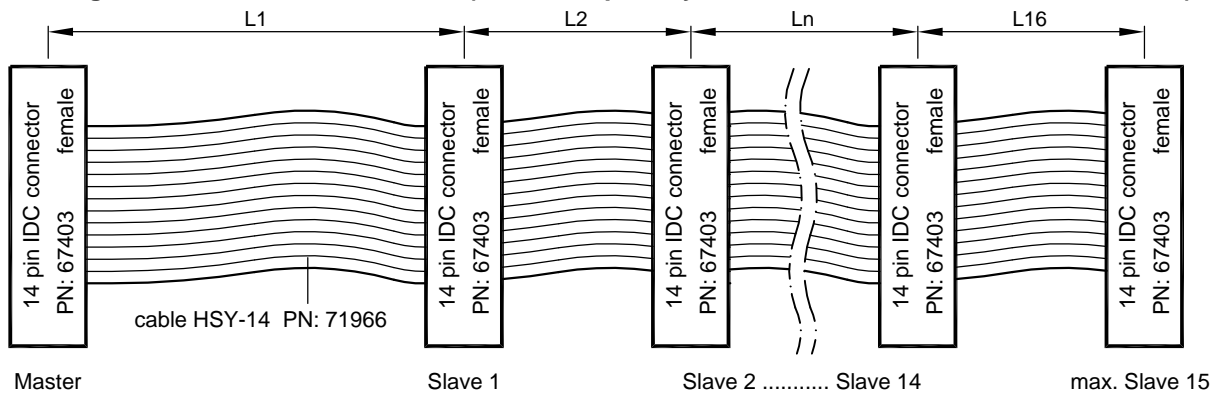
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 PEPPERL+FUCHS Mannheim-Schönau	Cabinet assembly with motherboards, marshalling and HART-Multiplexer	10.12.97	vB	vB	vB	
		Date	S	TD	Off. in ch.	contr. techn.
		Dept.: PA-VP	No. TAB174-B			
		Up date: xx.xx.xx	Replaces: XXXXXX / 36-XXXX			Sheet 1
			Scale: 1 : 10			of 1

connecting cable K-HM26, PN:114025 (cable length 1m)
 connecting cable K-HM26, PN:114026 (cable length variable - max. 8m)



connecting cable K-HM14, PN: 39630 (16 connetors, cable length 0,45m)
 connecting cable K-HM14, PN: 102483 (connetor quantity variable - max.16 connetors + max. 8m)



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05.03.04	DN	vB	MB	
Date	S TD	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA-VP	No. 36-9274 1			
Up date: xx.xx.xx	Replaces: XXXXXX / 36-9205B		Sheet 1	
Scale: -:-			of 1	



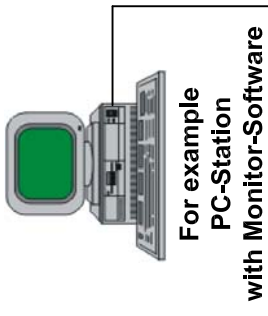
PEPPERL+FUCHS
Mannheim-Schönau

**Cables for the
HART Multiplexer-System**

System requirements:

- HART Multiplexer Master (40 mm) KFD2-HMM-16
- HART Multiplexer Slave (20 mm) KFD0-HMS-16
- Cable Motherboard - Master/Slave K-HM 26
- Cable Master - Slave K-HM 14

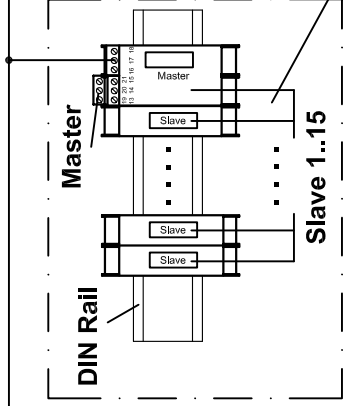
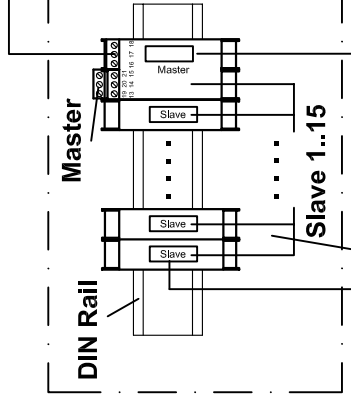
PC-Maintenance-Station with HART Management software



For example
 PC-Station
 with Monitor-Software

Master Slave 1

Master Slave 32

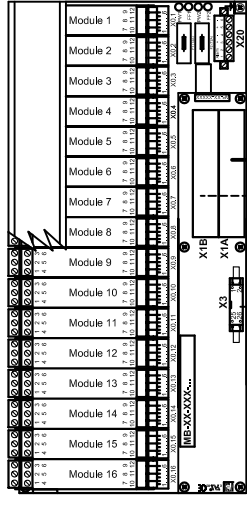
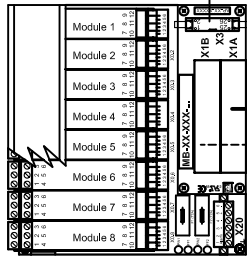


RS 485 connection
 to PC (3 wire)

Cable K-HM 26

Cable K-HM 14

Cable K-HM 14



Max. 16 boards
 with 16 ch. each

8 dual channel
 analog modules

16 single channel
 analog modules

System cable
 to Yokogawa
 I/O module

System cable
 to Yokogawa
 I/O module



PEPPERL+FUCHS
 Mannheim-Schönau

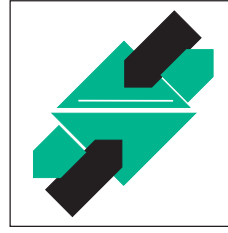
Structure
 HART Multiplexer System

29.10.04	Bro	Sb	Sb
Date	S	TD	Off. in ch. contr. techn. Norm
Dept.:	PA-VP	No.	36-9274B5
Up date:	12.01.06	Replaces:	XXXXXX / 36-XXXX
		Scale:	1 of 1

One Company, Two Divisions



Factory Automation Division



Process Automation Division

Product Range

- Digital and analogue sensors
- in different technologies
 - Inductive and capacitive sensors
 - Magnetic sensors
 - Ultrasonic sensors
 - Photoelectric sensors
- Incremental and absolute rotary encoders
- Counters and control equipment
- Identification Systems
- AS-Interface

Areas of Application

- Machine engineering
- Conveyor or transport
- Packaging and bottling
- Automotive industry

Service Area

Worldwide sales, customer service and consultation via competent and reliable Pepperl+Fuchs associates ensure that you can contact us wherever or whenever you need us. We have subsidiaries worldwide for your convenience.

Product Range

- Signal conditioners
- Intrinsically safe interface modules
- Remote Process Interface (RPI)
- Intrinsically safe field bus solutions
- Level control sensors
- Process measuring and control systems engineering at the interface level
- Intrinsic safety training

Areas of Application

- Chemical industry
- Industrial and community sewage
- Oil, gas and petrochemical industry
- PLC and process control systems
- Engineering companies for process systems

<http://www.pepperl-fuchs.com>

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 **PEPPERL+FUCHS**