

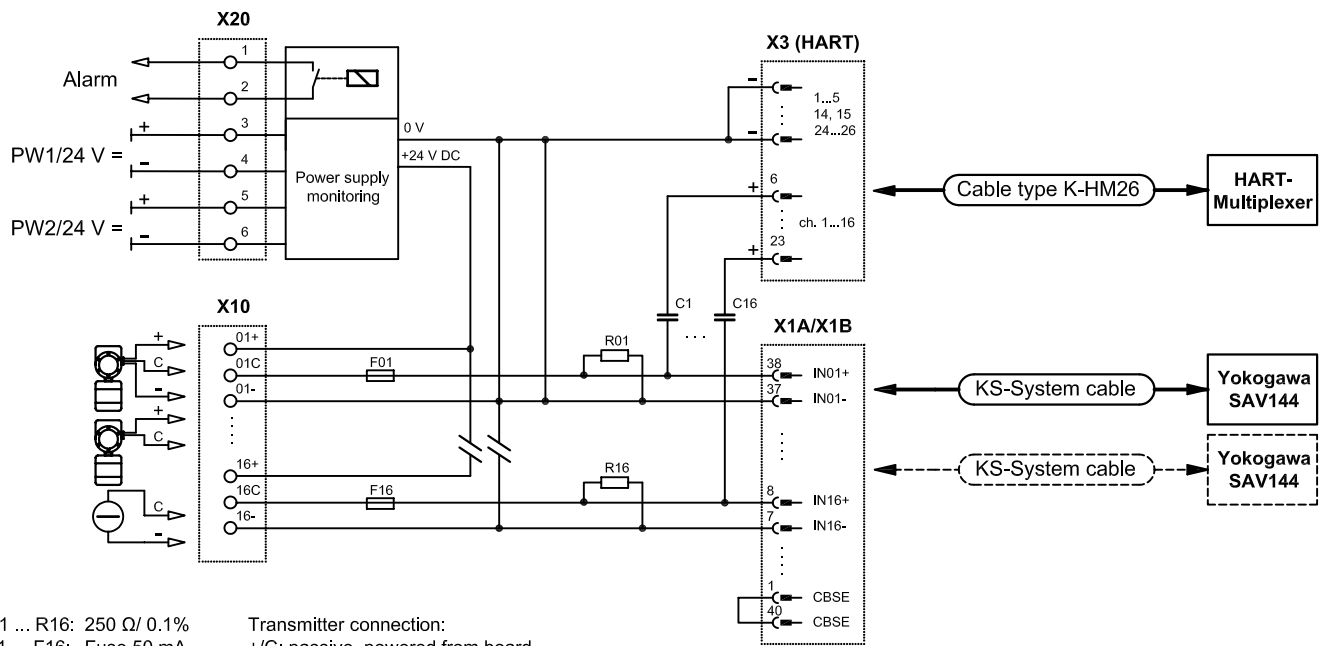
Technical Description

Field termination: X10	Pressure clamp terminal AWG 14...24	AI (4 ... 20 mA)
System connector: X1A, X1B	40 pin male YO40	AI (4 ... 20 mA)
Connector HART-Mux: X3	26 pin HART connector	HART-communication
Power feed: X20.3 ... 6	Redundant Power feed	24 V DC / max. 2 A
Alarm: X20.1, X20.2	Power Alarm	Relay contact max. 30 V AC, 40 V DC, 2 A
F150; 151	Power feed fuse	2 A
X20	6 pin screw terminal (removable)	Power feed terminal

Accuracy current to voltage conversion: 0,1% by 20°C ambient temperature +0,025%/10°C

Function: Termination-Board to connect to the Yokogawa ProSafe RS I/O card. The TB System connector X1A/X1B links to the Yokogawa I/O card via a standard cable supplied by Yokogawa. Two system connectors in parallel allow for redundant applications. The connections to/from the field are pressure clamp terminals X10. A HART connector X3, in parallel with the system connector, links to the Pepperl+Fuchs HART multiplexer via a ribbon cable type K-HM26. The unit has a 24 V DC redundant power supply feed, monitored by a potential free relay contact. (X20. 1, 2) LED PW1, PW2 and Alarm indicate the actual power status. Each loop is fused to protect the Yokogawa I/O card. The board is designed to be mounted vertically on DIN-Rail (DIN EN 5022).

Circuit diagram



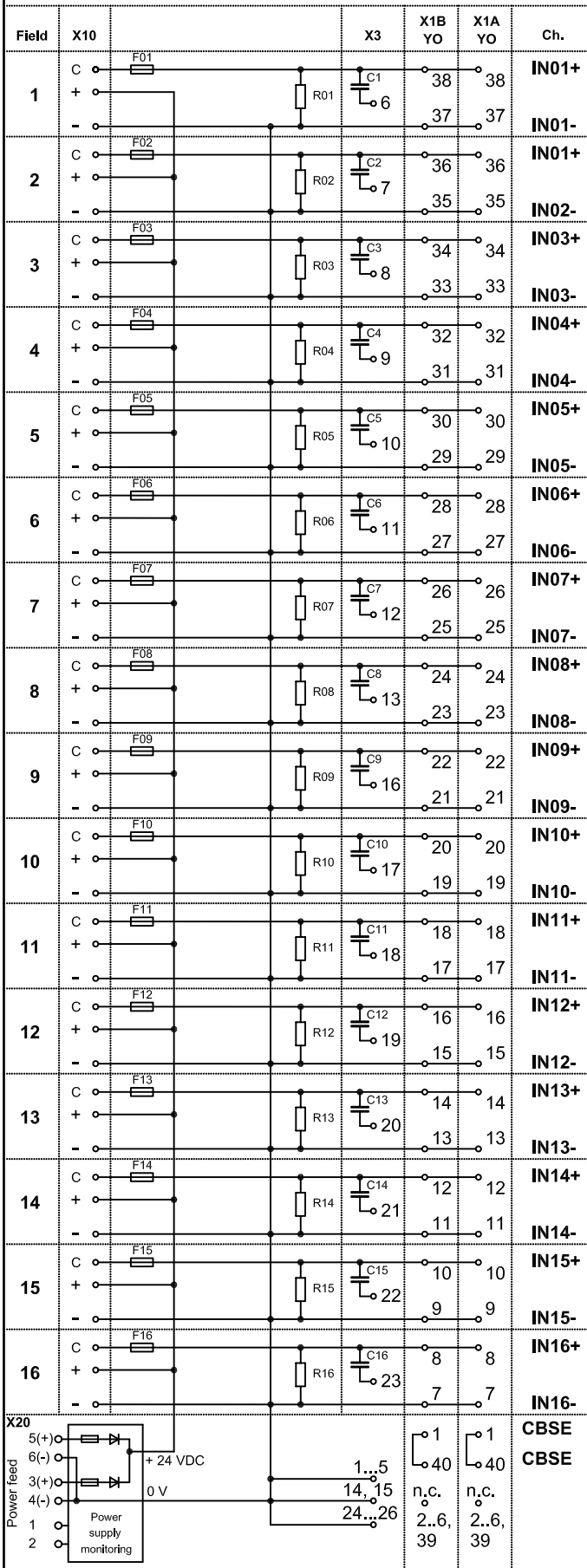
R01 ... R16: 250 Ω/ 0.1%
 F01 ... F16: Fuse 50 mA
 C01 ... C16: 4.7 μF/50 V

Transmitter connection:
 +/C: passive, powered from board
 -/C: active, self powered

Options: TB-RS-AI16V-SCSI40: PN 183384 (36-9312_2) with SCSI connector

13.06.05	Bro	vB	Sb/vB	
Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
Dept.: PA-PG-IF	No. 36-931211			
Up date: 03.11.10	Replaces: XXXXX / 36-XXXX		Sheet 1	
Scale: 1 : 2			of 3	

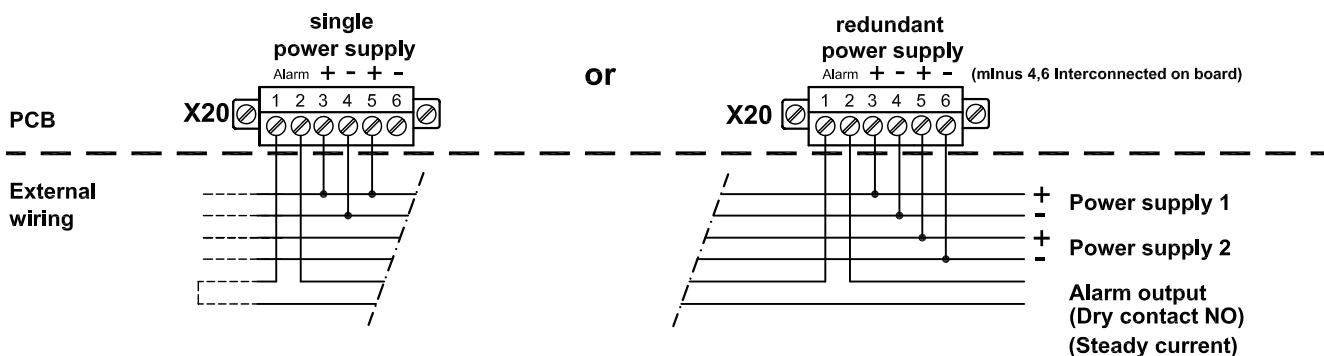
Channels 1 ... 16



copyright according to DIN34
unauthorized distribution and reproduction prohibited

	13.06.05	Bro	vB	Sb/vB	
	Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
PEPPERL+FUCHS Mannheim-Schönau	FI-Module Non IS termination board AI 16 channels - redundant TB-RS-AI16V-KS-183383		Dept.: PA-PG-IF	No. 36-93121I	
	Up date: HB 03.11.10		Replaces: XXXXX / 36-XXXX		Sheet 2
				Scale: 1 : 2	of 3


Connection power supply and error message (Alarm)



Alarm LED indication and contact status

Power supply 1	Power supply 2	LED green	X20.1, X20.2 Alarm contact	LED red (Flashing)
PS ON and Fuse 150 OK	PS ON and Fuse 151 OK	LED150 ON LED151 ON	contact closed	LD135 OFF
PS ON and Fuse 150 OK	PS OFF	LED150 ON LED151 OFF	contact open	LD135 ON
PS OFF	PS ON and Fuse 151 OK	LED150 OFF LED151 ON	contact open	LD135 ON
PS ON and Fuse 150 OK	PS ON and Fuse 151 broken	LED150 ON LED151 OFF	contact open	LD135 ON
PS ON and Fuse 150 broken	PS ON and Fuse 151 OK	LED150 OFF LED151 ON	contact open	LD135 ON
PS ON and Fuse 150 broken	PS ON and Fuse 151 broken	LED150 OFF LED151 OFF	contact open	LD135 OFF
PS OFF	PS OFF	LED150 OFF LED151 OFF	contact open	LD135 OFF

copyright according to DIN34
unauthorized distribution and reproduction prohibited

	PEPPERL+FUCHS Mannheim-Schönau	FI-Module Non IS termination board AI 16 channels - redundant TB-RS-AI16V-KS-183383	13.06.05	Bro	vB	Sb/vB	
			Date	S TZ	Off. in ch.	contr. techn.	contr. Norm
		Dept.: PA-PG-IF Up date: HB 03.11.10	No.36-9312I1 Replaces: XXXXX / 36-XXXX		Sheet 3		
			Scale: 1:2		of 3		