

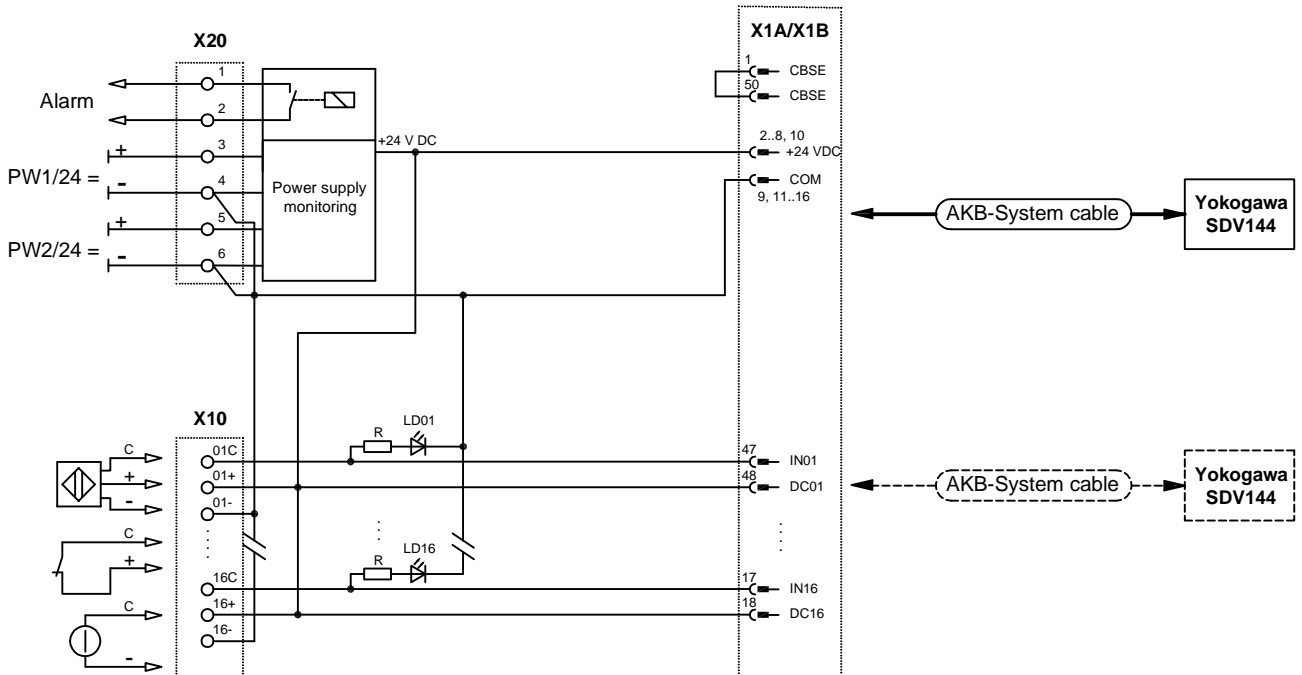
Technical Description

Field termination: X10	Pressure clamp terminal AWG 14...24	DI
System connector: X1A, X1B	50 pin YO50 AKB (331)	DI
Power feed: X20.3 ... 6	Redundant Power feed	24 V DC SELV/PELV / 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

Please note: If the SDV144 pulse diagnostic is on, the yellow LEDs with open input circuit are flashing.

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. 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. Following field devices are supported: 3-wire sensor, potential free contact, active voltage surge (see circuit diagram). Fuses are supervised and monitored by the Alarm relay. The board is designed to be mounted on DIN-Rail (DIN EN5022).

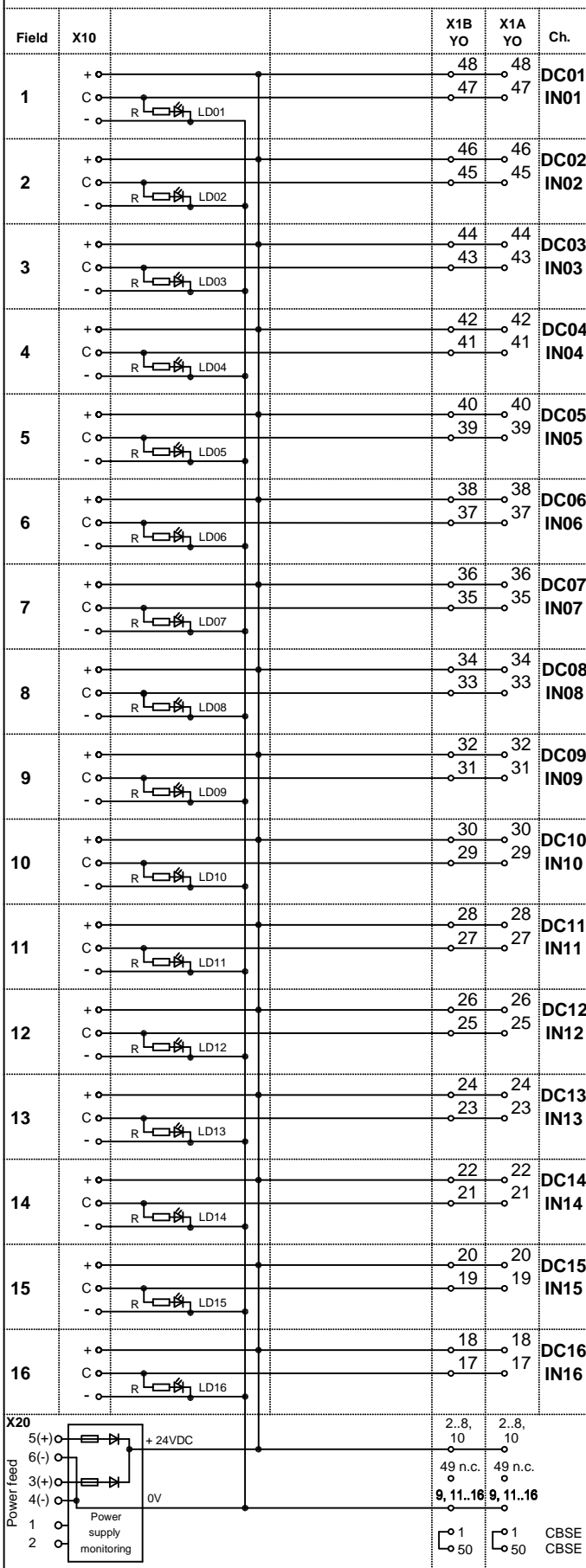
Circuit diagram



Options: TB-DI16-SCSI50: PN 185848 (36-9308_2) with SCSI connector

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Channels 1 ... 16



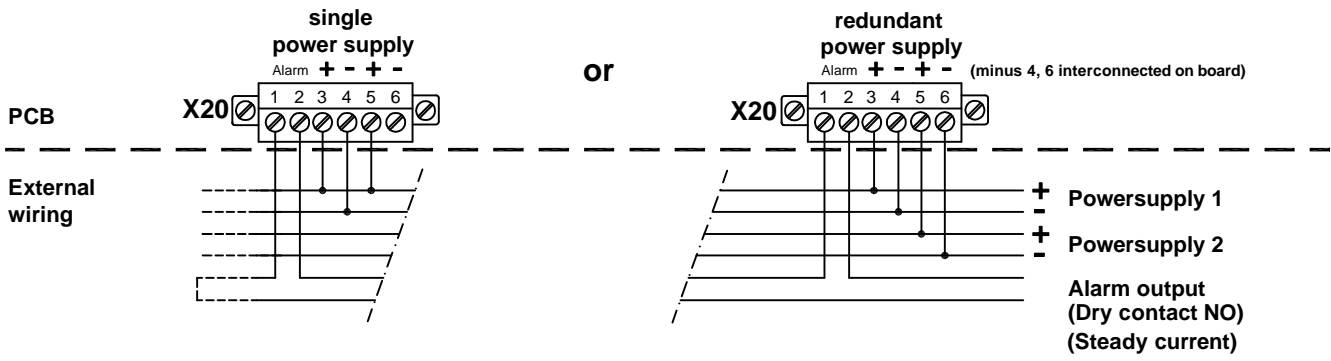
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PEPPERL+FUCHS
Mannheim-Schönau

FI-Module
 Non IS termination board
 DI 16 channels - redundant
TB-RS-DI16-AKB-185847


Connection power supply and error message (Alarm)



Alarm LD indication and contact status

Power supply 1	Power supply 2	LD green	X20.1, X20.2 Alarm contact	LD red (Flashing)
PS ON and Fuse 150 OK	PS ON and Fuse 151 OK	LD150 ON LD151 ON	contact closed	LD135 OFF
PS ON and Fuse 150 OK	PS OFF	LD150 ON LD151 OFF	contact open	LD135 ON
PS OFF	PS ON and Fuse 151 OK	LD150 OFF LD151 ON	contact open	LD135 ON
PS ON and Fuse 150 OK	PS ON and Fuse 151 broken	LD150 ON LD151 OFF	contact open	LD135 ON
PS ON and Fuse 150 broken	PS ON and Fuse 151 OK	LD150 OFF LD151 ON	contact open	LD135 ON
PS ON and Fuse 150 broken	PS ON and Fuse 151 broken	LD150 OFF LD151 OFF	contact open	LD135 OFF
PS OFF	PS OFF	LD150 OFF LD151 OFF	contact open	LD135 OFF

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 PEPPERL+FUCHS Mannheim-Schönau	FI-Module Non IS termination board DI 16 channels - redundant TB-RS-DI16-AKB-185847	25.05.05	Bro/vB	DG	--/--	
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