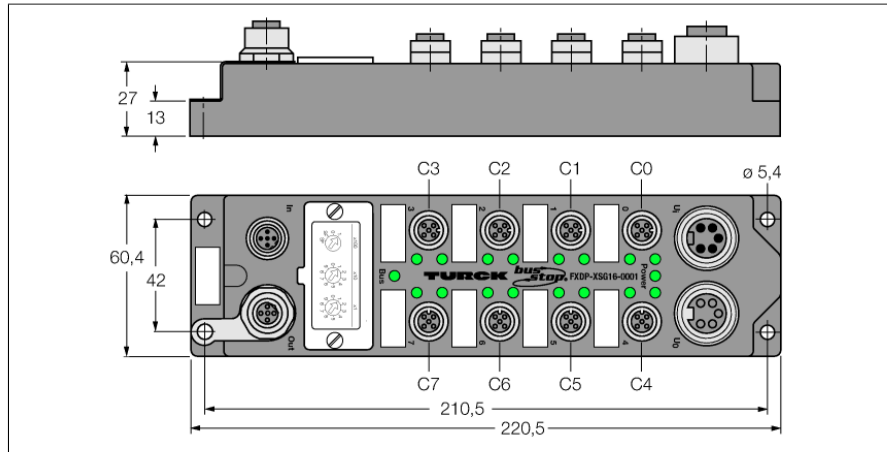


Fieldbus I/O module PROFIBUS-DP

16 configurable digital channels

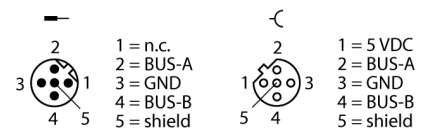
pnp inputs / outputs 1.4 A

FXDP-XSG16-0001

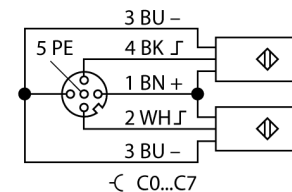


- Ports freely configurable
- Diagnostics can be mapped in user data
- Input diagnostics per port
- Output diagnostics per channel
- Fibre-glass reinforced PA6 housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connectors
- Degree of protection IP67
- ATEX category II 3 G, Ex Zone 2

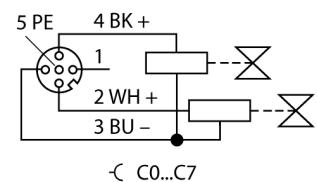
M12 × 1 Fieldbus



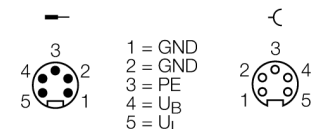
M12 × 1 Input



M12 × 1 Output



7/8" Power Supply



Type	FXDP-XSG16-0001
ID	6825406
Number of channels	16
Operating / load voltage	18...30 VDC
Operating current	< 75 mA
Voltage supply connection	2 × 7/8"
Inputs	
Number of channels	(16) 3-wire pnp sensors
Input voltage	18...30 VDC via operating voltage
Supply current	< 120 mA per channel, short-circuit proof
Switching threshold	2 mA / 4 mA
Input delay	2.5 ms
Switching frequency	≤ 250 Hz
Max. input current	7 mA
Electrical isolation	galvanic isolation against the bus
Outputs	
Number of channels	(16) DC actuators
Output voltage	18...30 VDC from load voltage
Output current per channel	1.4 A, short-circuit proof
Load type	resistive, inductive, lamp load
Switching frequency	≤ 250 Hz
Simultaneity factor	0.4
Electrical isolation	galvanic isolation against the bus
Fieldbus transmission rate	9.6 kbps ... 12 Mbps
Fieldbus addressing	0 ... 126 (decimal) via three coded rotary switches
Electrical isolation	to operating and load voltage
Diagnostics	Load voltage diagnostics, switched on/off via GSD parameter

Dimensions (W x L x H)	60 x 220.5 x 27 mm
Housing material	fibre-glass reinforced Polyamide (PA6-GF30)
Halogen-free	yes
Mounting	4 mounting holes Ø 5,4 mm
Ambient temperature	-25...+55 °C
Storage temperature	-25...+70 °C
Altitude	Max. 5000 m
Vibration test	Acc. to EN 60068-2-6
Shock test	Acc. to EN 60068-2-27
Electromagnetic compatibility	Acc. to EN 61000-6-2/EN 61000-6-4
Protection class	IP67
MTTF	121 years acc. to SN 29500 (Ed. 99) 20 °C
Approvals	CE, cULus, II 3 G EEx nA IIC T4 X
UL Certificate	pol. deg.2, env. temp. max. 40 °C, cl.2 ps req.

Data in process image

C1P4: Male Connector 1, 4-pole

SC: Short-circuit - group signal

SC3: Short-circuit channel 3

Con2: Overload sensor supply C2

UB: UB < 18 VDC

UL: UL < 18 VDC

		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Output	Byte 0	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	Byte 1	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
Diagnostics	Byte 0	–	–	–	–	–	UB	UL	SC
	Byte 1	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	Byte 2	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	Byte 3	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0