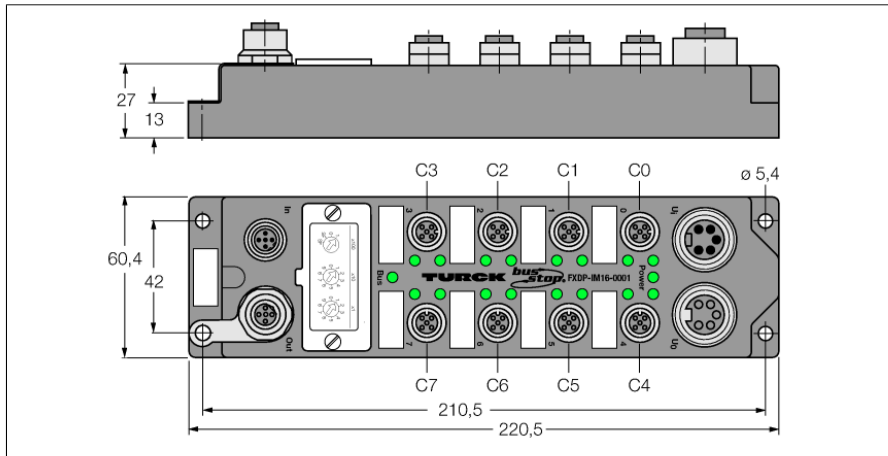


Fieldbus I/O module PROFIBUS-DP

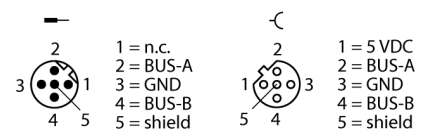
16 digital pnp inputs

FXDP-IM16-0001

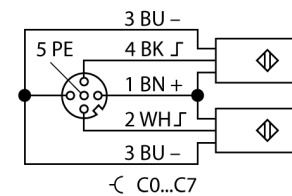


- Two inputs per connector
- Diagnostics can be mapped in user data
- Input diagnostics per port
- Fibre-glass reinforced PA6 housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connector
- Protection class IP67

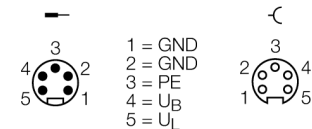
M12 × 1 Fieldbus



M12 × 1 Input



7/8" Power Supply



Type designation	FXDP-IM16-0001
Ident no.	6825401
Number of channels	16
Operating / load voltage	18...30 VDC
Operating current	< 75 mA
Voltage supply connection	2 x 7/8"
Inputs	(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
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
UL Certificate	pol. deg.2, env. temp. max. 40 °C, cl.2 ps req.
Dimensions (W x L x H)	60 x 220.5 x 27mm
Housing material	fibre-glass reinforced Polyamide (PA6-GF30)
Halogen-free	yes
Mounting	4 mounting holes Ø 5,4 mm
Operating temperature	-25...+55 °C
Storage temperature	-25 ... +70 °C
Altitude	max.5000 m
Vibration test	as per EN 60068-2-6
Shock test	as per EN 60068-2-27
Electromagnetic compatibility	according to EN 61000-6-2/EN 61000-6-4
Protection class	IP67
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.

Fieldbus I/O module PROFIBUS-DP[®]
16 digital pnp inputs
FXDP-IM16-0001

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

C1P4 Connector C1, Pin 4
 UB Operating voltage UB < 18 VDC
 SC Common short-circuit indication of inputs
 Con 2 Short circuit sensor supply connector C2
 Bit is not used

	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
Diagnostics¹⁾	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

¹⁾ The manufacturer-specific diagnostics can be fully mapped to the user data area via the configuration menu.