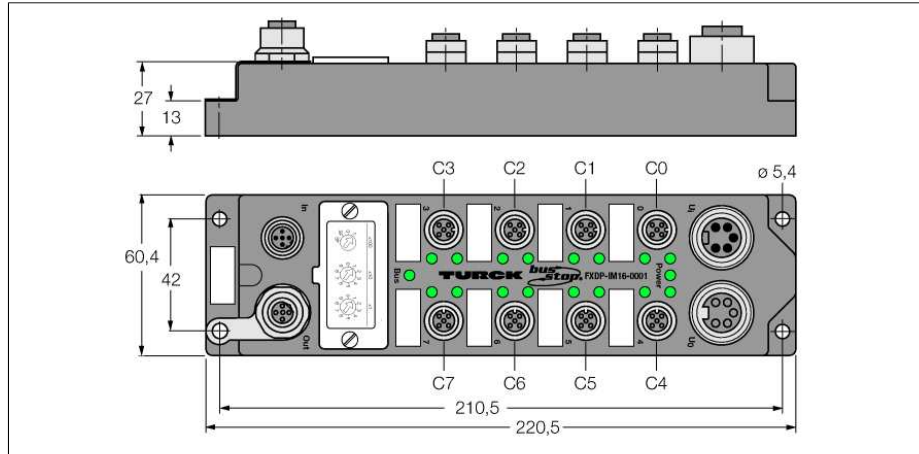
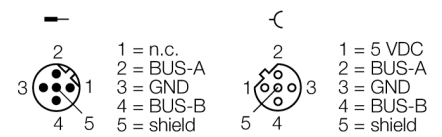


**Fieldbus I/O module PROFIBUS-DP**  
**16 digital pnp inputs**  
**FXDP-IM16-0001**

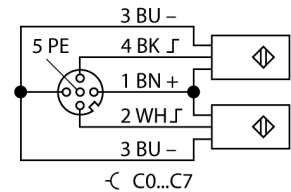


- ATEX category II 3 G, Ex Zone 2
- Two inputs per connector
- Diagnostics can be mapped in user data
- Input diagnostics per port
- Fibre-glass reinforced PA6 housing
- Vibration and shock-resistant
- Encapsulated module electronics
- Metal connector
- Protection class IP67

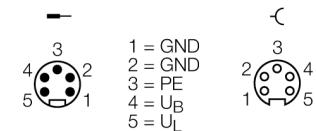
**Fieldbus M12 x 1**



**input M12 x 1**



**Power supply 7/8"**



<b>Type code</b>	FXDP-IM16-0001
<b>Ident no.</b>	6825401
<b>Operating / load voltage</b>	18...30 VDC
<b>Operating current</b>	< 75 mA
<b>Voltage supply connection</b>	2 x 7/8"
<b>Fieldbus transmission rate</b>	9.6 kbps ... 12 Mbps
<b>Fieldbus addressing</b>	0 ... 126 (decimal) via three coded rotary switches
<b>Inputs</b>	
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
<b>Electrical isolation</b>	to operating and load voltage
<b>Dimensions (W x L x H)</b>	60.4x220.5x27mm
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
Vibration test	as per EN 60068-2-6
Shock test	as per EN 60068-2-27
Electro-magnetic 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 conditions	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	
<b>Input</b>	<b>Byte 0</b>	C3P2	C3P4	C2P2	C2P4	C1P2	C1P4	C0P2	C0P4
	<b>Byte 1</b>	C7P2	C7P4	C6P2	C6P4	C5P2	C5P4	C4P2	C4P4
<b>Diagnostics<sup>1)</sup></b>	<b>Byte 0</b>	-	-	-	-	UB	UL	SC	
	<b>Byte 1</b>	SC 7	SC 6	SC 5	SC 4	SC 3	SC 2	SC 1	SC 0
	<b>Byte 2</b>	SC 15	SC 14	SC 13	SC 12	SC 11	SC 10	SC 9	SC 8
	<b>Byte 3</b>	Con 7	Con 6	Con 5	Con 4	Con 3	Con 2	Con 1	Con 0

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