

Y junction M12-M12 5p M12 8p

Connection

Connection option 1

The Y-adapter is used to connect a PSEN ml b to the PDP67 PN 6FDI 6FDIO 2FDOTP. Activation of the solenoid is dual-channel via digital FS outputs. The signal output (Y32) is not evaluated. The status of the actuator can be evaluated via the "Safety Gate" LED on the PSEN ml b.

Connection option 2

As connection option 1.
The PSEN ml end adapter (order no. 570487) is also required.

Additional documents that apply

Please read and take note of the following documents:

- ▶ Operating manual PDP67 PN 6FDI 6FDIO 2FDOTP
- ▶ Operating manual PSEN ml b
- ▶ Operating manual PSEN ml s

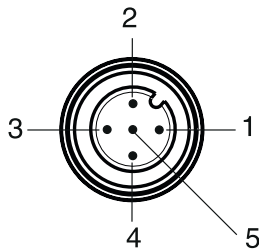


NOTICE

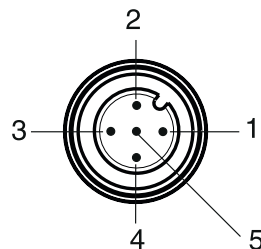
The Y-adapter may not be used in a series connection.

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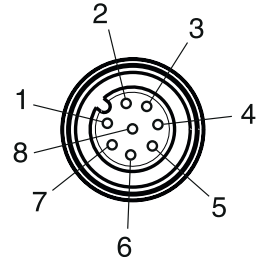
Connector pin assignment



Plan view of plug-in connector X1

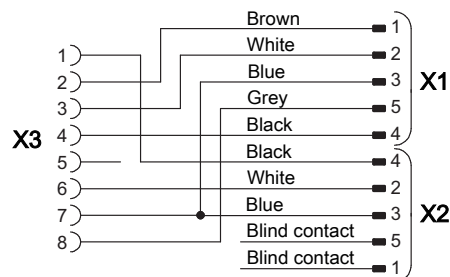


Plan view of plug-in connector X2



Plan view of plug-in connector X3

Contact assignment



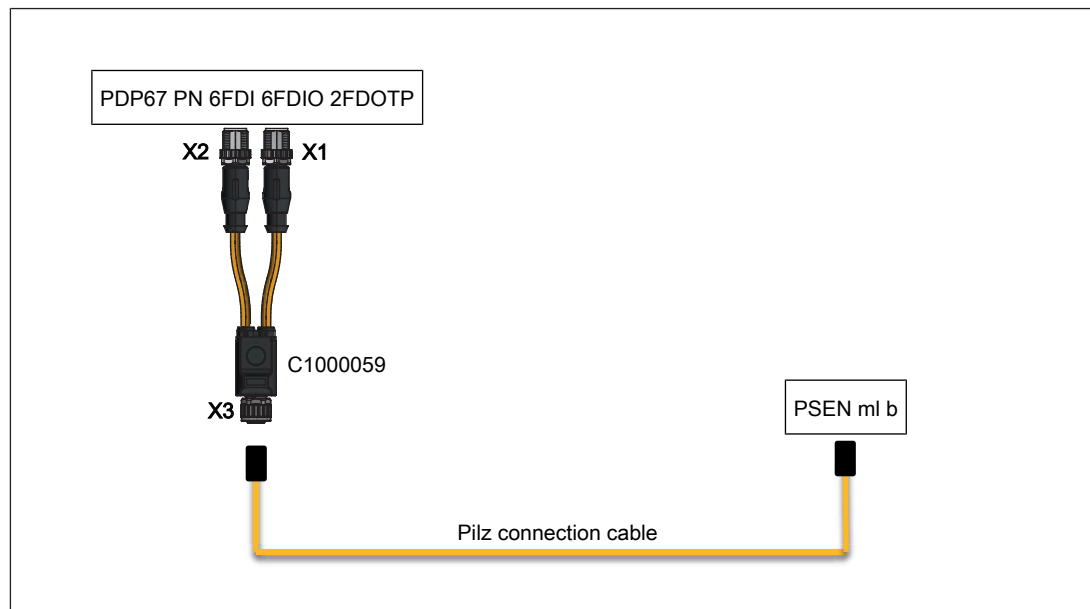
- X1: Connection X01/X03/X05 of the PDP67 (voltage supply, OSSDs PSEN ml)
- X2: Connection X02/X04/X06 of the PDP67 (solenoid activation)
- X3: Connection PSEN ml b

Note: Connections X02/X04/X06 must be configured as outputs.

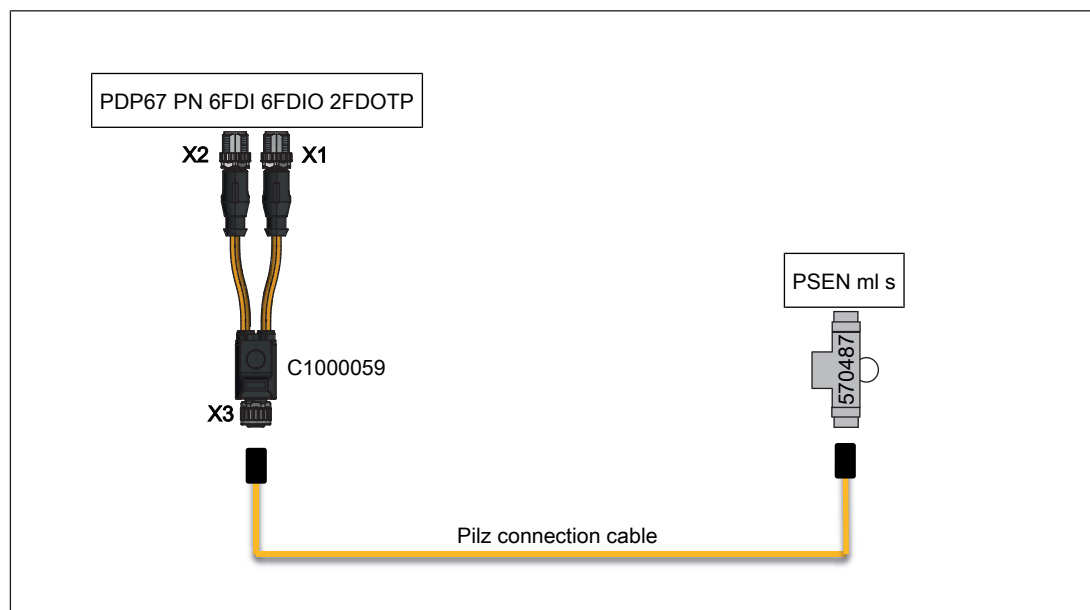
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Connection examples

► PSEN ml b



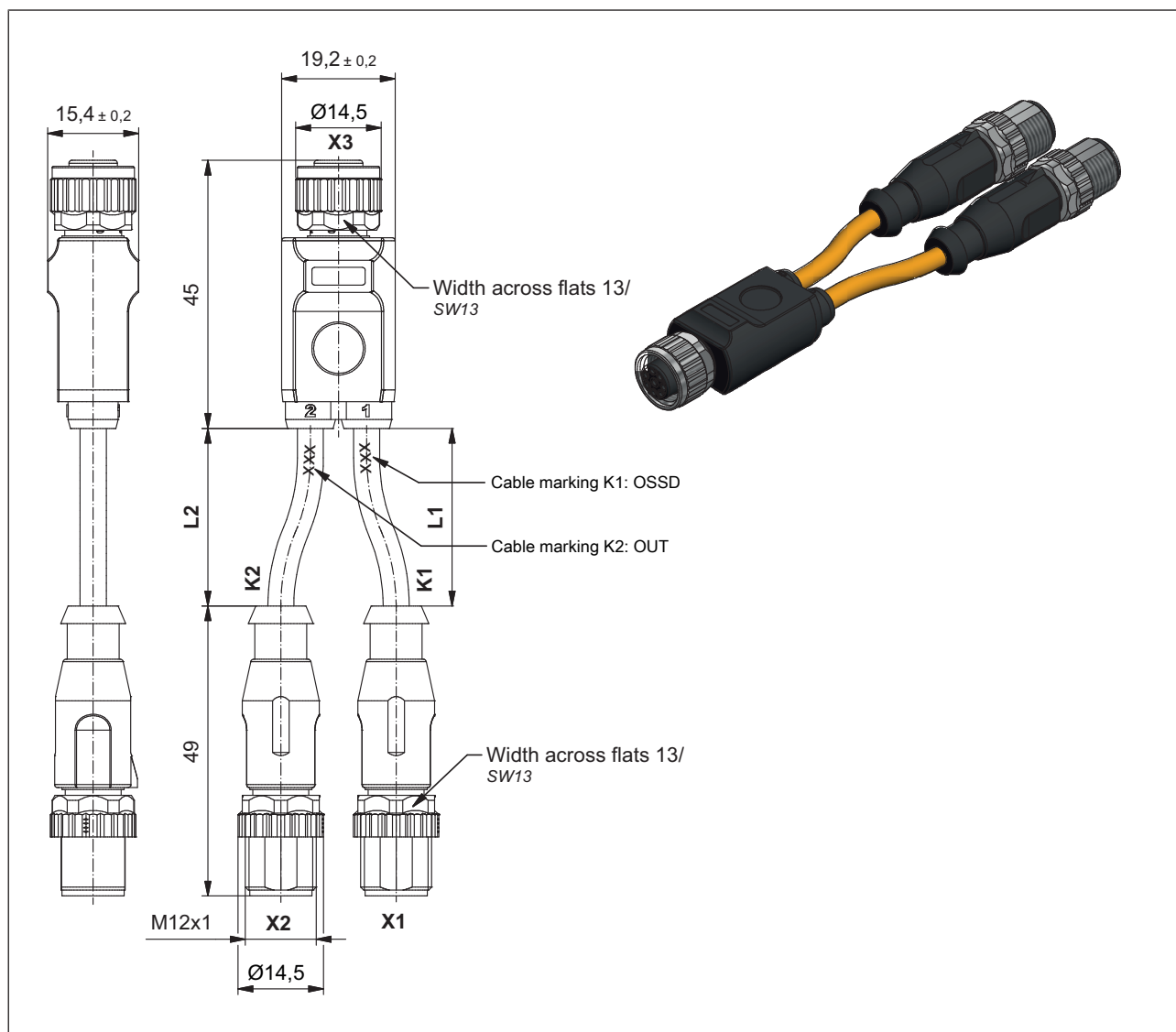
► PSEN ml s



Accessories

Y junction M12-M12 5p M12 8p

Dimensions in mm



Accessories

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Technical details

General	
Certifications	CE, UKCA
Electrical data	
Rated voltage	
Voltage UB	30 V
Rated current	2 A
Typ. conductor resistance K1	Max. 58 Ohm/km at 20 °C
Typ. conductor resistance K2	Max. 58 Ohm/km at 20 °C
Insulation resistance	100 MOhm
Environmental data	
Ambient temperature	
Temperature range	-25 - 80 °C
Airgap creepage	
Pollution degree	2
Protection type	
X1 when inserted	IP67 when screwed in place
X2 when inserted	IP67 when screwed in place
X3 when inserted	IP67 when screwed in place
Housing	IP67 when screwed in place
Mechanical data	
Plug-in connector X1	M12, 5-pin male connector
In accordance with the standard	IEC 61076-2-101
Form, plug-in connector X1	Straight
Coding of plug-in connector X1	A-coded
Plug-in connector X2	M12, 5-pin male connector
In accordance with the standard	IEC 61076-2-101
Form, plug-in connector X2	Straight
Coding of plug-in connector X2	A-coded
Plug-in connector X3	M12, 8-pin female connector
In accordance with the standard	IEC 61076-2-101
Design of plug-in connector X3	Straight
Coding of plug-in connector X3	A-coded
Material of ring nut X1	GD-Zn, Ni
Material of ring nut X2	GD-Zn, Ni
Material of ring nut X3	GD-Zn, Ni
Housing material X1	TPU, UL94 HB
Housing material X2	TPU, UL94 HB
Housing material X3	TPU, UL94 HB
Material of contact surface X1	Ni b / Au 0.2 gal.

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Mechanical data	
Material of contact surface X2	Ni b / Au 0.2 gal.
Material of contact surface X3	Ni b / Au 0.2 gal.
Material of contact body	PA, UL 94 V-0
Material of gasket	FPM
Material of pin	CuZn
Material of socket	CuZn
Conductor material K1	Cu
Conductor material K2	Cu
Insulating cover for conductor K1	PP (9Y)
Insulating cover for conductor K2	PP (9Y)
Mating cycles X1	100
Mating cycles X2	100
Mating cycles X3	100
Cable type K1	4Li9Y11Y
Cable type K2	4Li9Y11Y
Cable length L1	0,2 m
Cable length L2	0,2 m
Colour of external cable insulation K1	Signal yellow, RAL1003
Colour of external cable insulation K2	Signal yellow, RAL1003
Colour of housing	black
Cable insulation material K1	PUR
Cable insulation material K2	PUR
Drag chain suitable K1	yes
Drag chain suitable K2	yes
Min. bending radius (fixed permanently) K1	7,5 x Ø
Min. bending radius (fixed permanently) K2	7,5 x Ø
Max. traverse path K1	4,5 m
Bending cycles cable K1	5.000.000
Max. traverse path K2	4,5 m
Bending cycles cable K2	5.000.000
Max. traverse speed K1	3 m/s
Max. traverse speed K2	3 m/s
Max. acceleration K1	5 m/s ²
Max. acceleration K2	5 m/s ²
Cable diameter K1	4,7 mm
Cable diameter K2	4,7 mm
Max. cable diameter K1	4,85 mm
Max. cable diameter K2	4,85 mm
Conductor cross section K1	0,25 mm ²
Conductor cross section K2	0,25 mm ²

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Mechanical data	
Conductor cross section AWG K1	24
Conductor cross section AWG K2	24
Wire colour K1	Brown, white, blue, black
Wire colour K2	Brown, white, blue, black
Stranding K1	5 cores
Stranding K2	5 Adern
Shielding K1	No
Shielding K2	No
No. of wires K1	5
No. of wires K2	5
Certification cable K1	UL AWM-Style 20549
Certification cable K2	UL AWM-Style 20549
Certification plug-in connector X1	UL 94 HB
Certification plug-in connector X2	UL 94 HB
Certification plug-in connector X3	UL 94 HB
Halogen-free	yes
Silicone-free	No
Oil resistance	Resistant
Non-flammability	UL FT2
Torque of the interlock screw	0.6 Nm
Torque wrench, plug insert	SW13
Weight	45 g

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
Adapter/ML/ M12-5SMX/ M12-5SMX/ M12-8SFX/XX		M12, 5-pin male con- nector, straight	M12, 5-pin male con- nector, straight	M12, 8-pin fe- male con- nector, straight	C1000059