PSEN ml / PDP67 Y junction PR

Connection

Connection option 1a

The Y-adapter is used to connect a PSEN ml b to the PDP67 F 8DI ION. Activation of the solenoid is dual-channel via digital ST outputs. The signal output (Y32) is evaluated.

Connection option 1b

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

Connection option 2a

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 ST outputs. The signal output (Y32) is evaluated.

Connection option 2b

As connection option 2a.
The PSEN ml end adapter (order no. 570487) is also required.

Additional documents that apply

Please read and take note of the following documents:

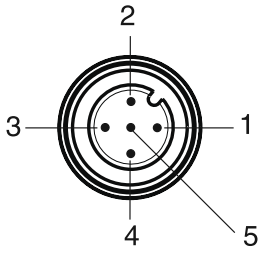
- Operating manual PDP67 F 8DI ION
- Operating manual PDP67 PN 6FDI 6FDIO 2FDOTP
- Operating manual PSEN ml b
- Operating manual PSEN ml s

NOTICE

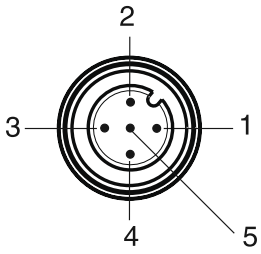
The Y-adapter may not be used in a series connection.

PSEN ml / PDP67 Y junction PR

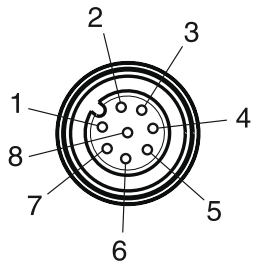
Connector pin assignment



Plan view of plug-in connector
X1

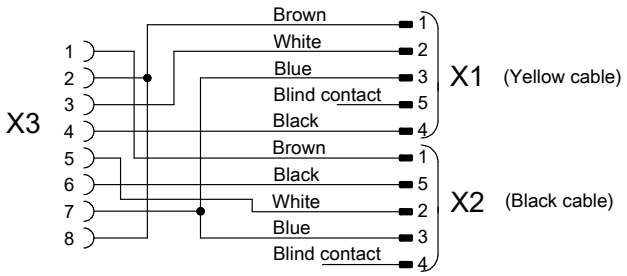


Plan view of plug-in connector
X2



Plan view of plug-in connector
X3

Contact assignment



Connection option PDP67 F 8DI ION

- X1: Connection X1-X4 of the PDP67 F 8DI ION (voltage supply, OSSDs PSEN ml)
- X2: Connection X1-X4 of the PDP67 F 8DI ION (solenoid activation)
- X3: Connection PSEN ml b/PSEN ml s

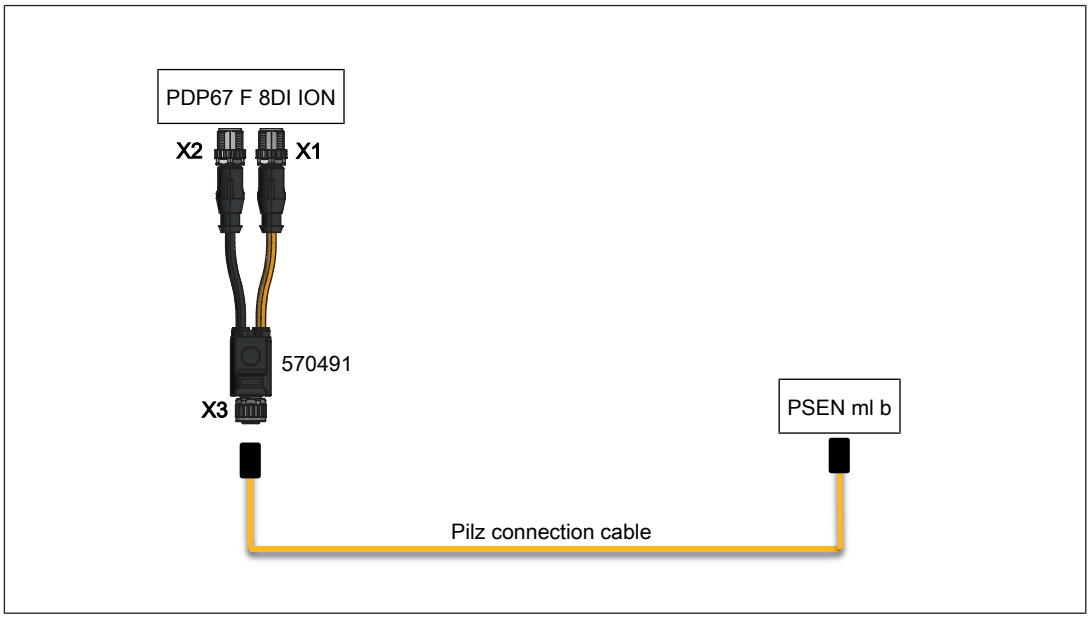
Connection option PDP67 PN 6FDI 6FDIO 2FDOTP

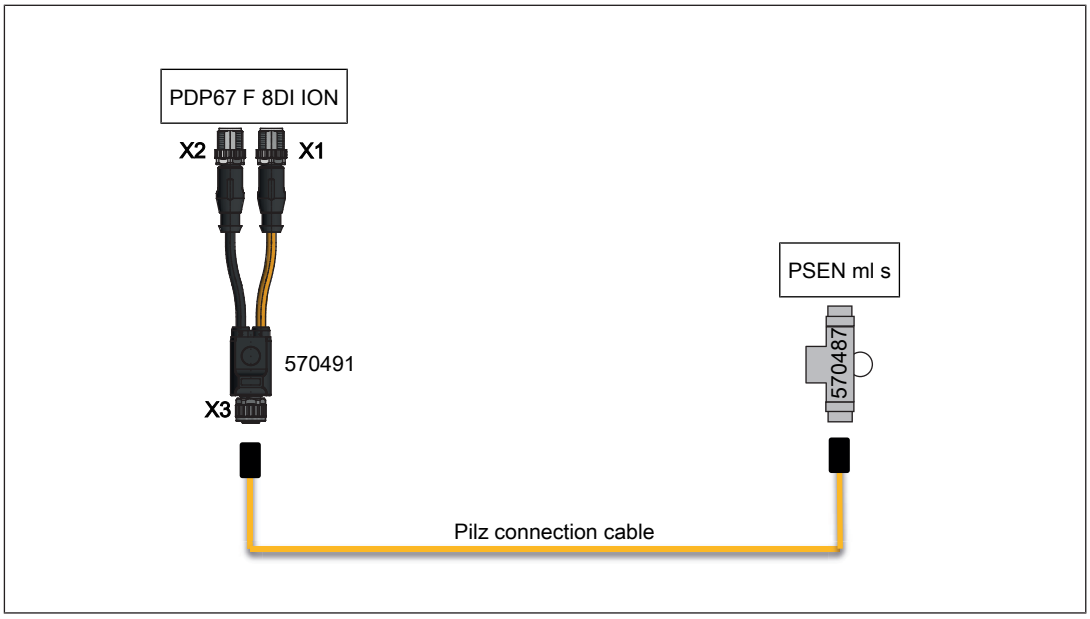
- X1: Connection X1-X4 of the PDP67 PN 6FDI 6FDIO 2FDOTP (voltage supply, OSSDs PSEN ml)
- X2: Connection X1-X4 of the PDP67 PN 6FDI 6FDIO 2FDOTP (solenoid activation)
- X3: Connection PSEN ml b/PSEN ml s

PSEN ml / PDP67 Y junction PR

Connection examples

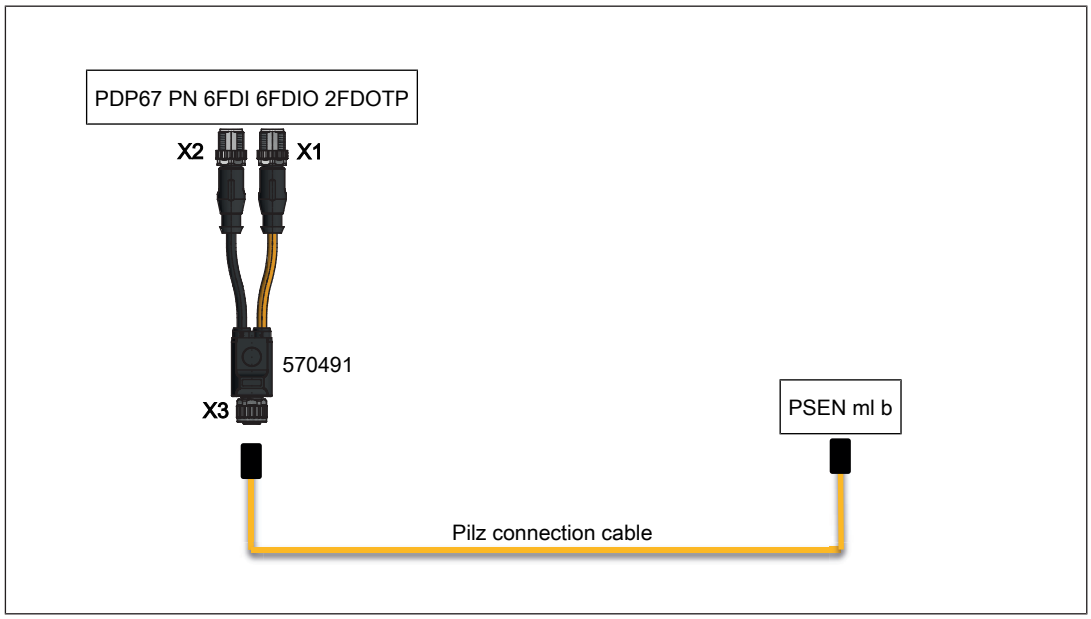
▸ PDP67 F 8DI ION

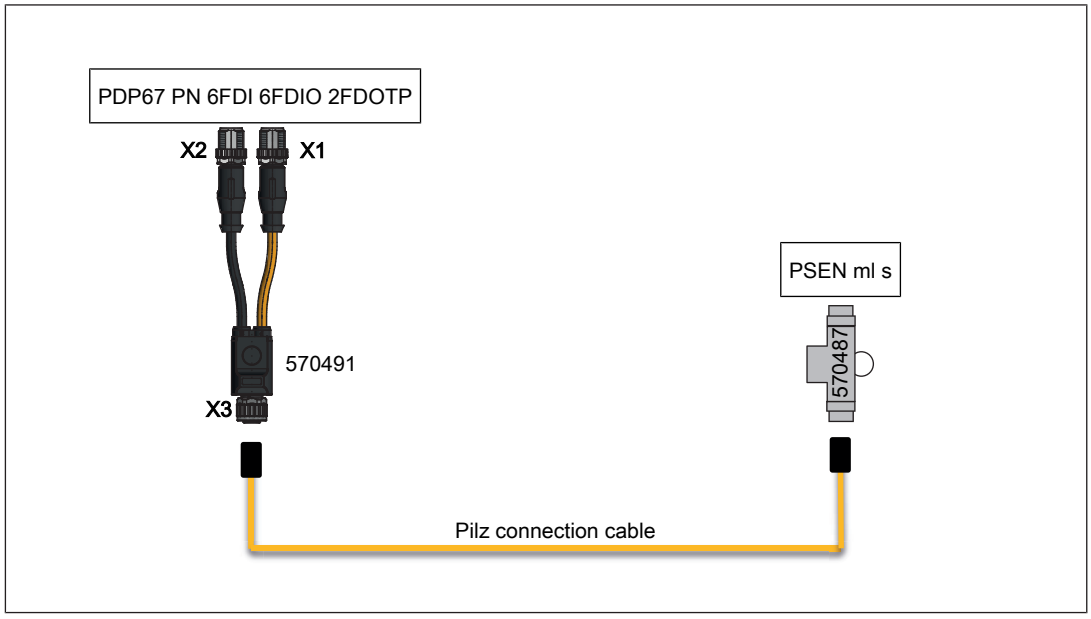




PSEN ml / PDP67 Y junction PR

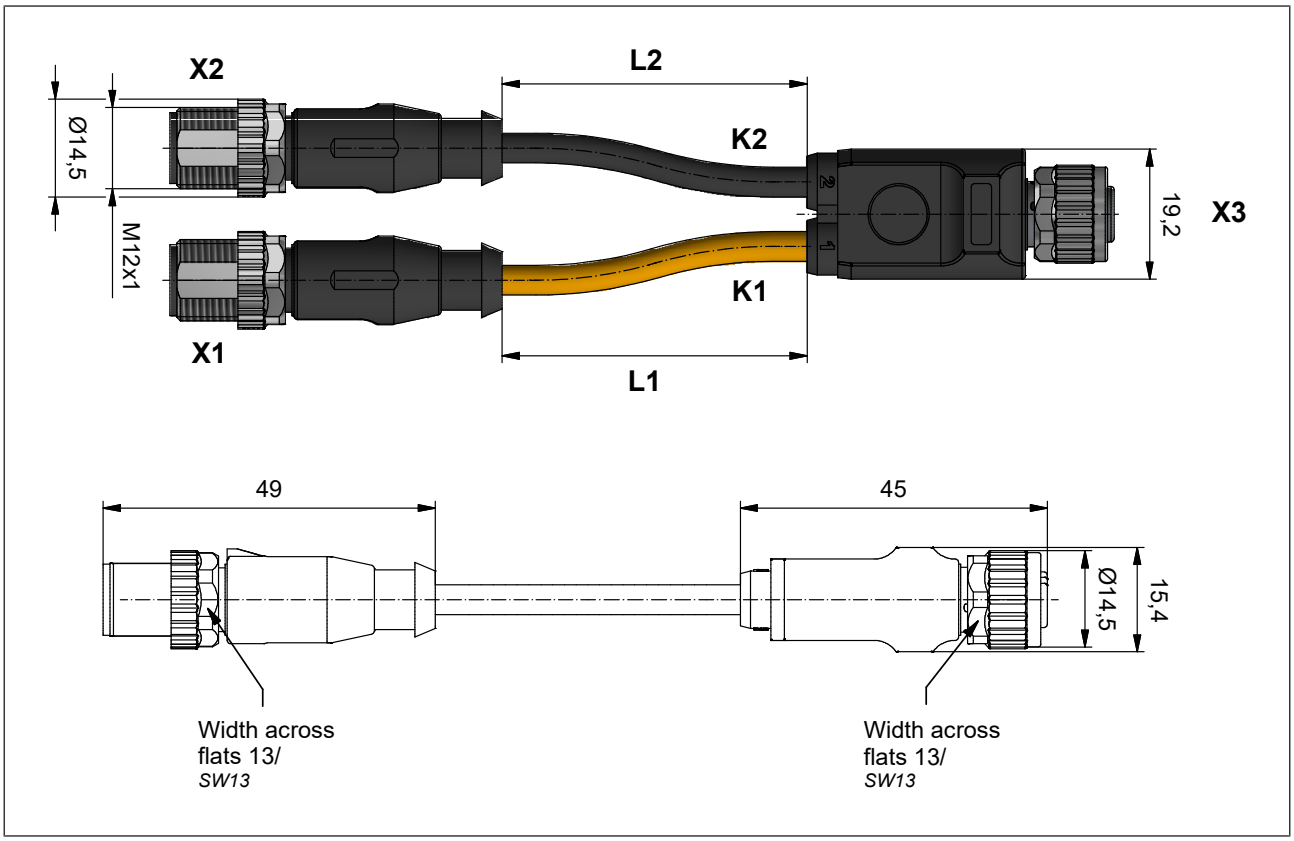
▸ PDP67 PN 6FDI 6FDIO 2FDOTP





PSEN ml / PDP67 Y junction PR

Dimensions in mm



Technical details

Electrical data	
Rated voltage	
Voltage UB	**30 V**
Rated current	**2 A**
Typ. conductor resistance K1	**58 Ohm/km**
Typ. conductor resistance K2	**58 Ohm/km**
Insulation resistance	**100 MOhm**
Environmental data	
Ambient temperature	
Temperature range	**-25 - 80 °C**
Airgap creepage	
Pollution degree	**2**

PSEN ml / PDP67 Y junction PR

Environmental data	
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.**
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**

PSEN ml / PDP67 Y junction PR

Mechanical data	
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	**Black RAL 9005**
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	**6 x Ø**
Min. bending radius (fixed permanently) K2	**6 x Ø**
Max. traverse path K1	**100 m**
Bending cycles cable K1	**2.000.000**
Max. traverse path K1	**20 m**
Bending cycles cable K1	**10.000.000**
Max. traverse path K2	**100 m**
Bending cycles cable K2	**2.000.000**
Max. traverse path K2	**20 m**
Bending cycles cable K2	**10.000.000**
Max. traverse speed K1	**5 m/s**
Max. traverse speed K2	**5 m/s**
Max. acceleration K1	**10 m/s2**
Max. acceleration K2	**10 m/s2**
Cable diameter K1	**4,4 mm**
Cable diameter K2	**4,4 mm**
Max. cable diameter K1	**4,45 mm**
Max. cable diameter K2	**4,45 mm**
Conductor cross section K1	**0,25 mm²**
Conductor cross section K2	**0,25 mm²**
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	**4 cores**
Stranding K2	**4 Adern**
Shielding K1	**No**
Shielding K2	**No**
No. of wires K1	**4**
No. of wires K2	**4**
Certification cable K1	**UL AWM-Style 20549**

PSEN ml / PDP67 Y junction PR

Mechanical data	
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**
Weight	**45 g**

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PSEN ml / PDP67 Y junction PR	0.2 m	M12, 5-pin male connector, straight	M12, 5-pin male connector, straight	M12, 8-pin female connector, straight	570491