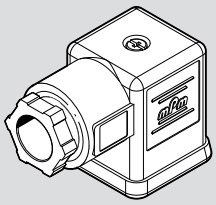
PEV-1/4-WD-LED-24
Angled plug socket



FESTO

Festo SE & Co. KG
Ruiter Straße 82
73734 Esslingen
Germany
+49 711 347-0

www.festo.com

Assembly instructions

8189936
2023-12
[8189938]

8189936

Translation of the original instructions

© 2024 all rights reserved to Festo SE & Co. KG

1 Applicable Documents

i

All available documents for the product ➔ www.festo.com/sp.

2 Safety

2.1 Safety instructions

– Before working on the product: Switch off the power supply, ensure that it is off and secure it against being switched on again.

2.2 Intended use

The angled plug socket is a plug connector that can be assembled and connects the pressure switch PEV-1/4-B(-OD), PEV-1/4-SC-OD or PEV-1/4-A- SW27-B-OD with a controller.

2.3 Training of qualified personnel

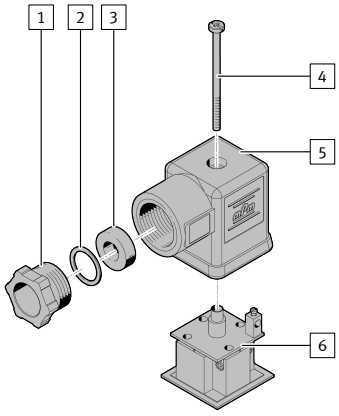
Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers. The qualified personnel are trained in electrical engineering.

3 Additional information

– Contact the regional Festo contact if you have technical problems ➔ www.festo.com.
– Accessories and spare parts ➔ www.festo.com/catalogue.

4 Product Range Overview

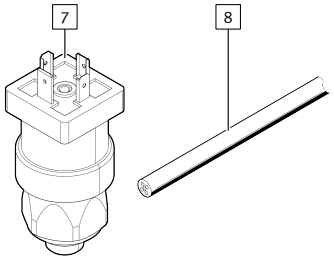
4.1 Scope of delivery



1 Pressure screw (1x)
2 Washer (1x)
3 Seal (1x)
4 Central screw (1x)
5 Housing (1x)
6 Contact holder (1x) with screw terminals, LED green, LED yellow

Fig.1

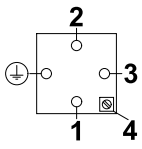
4.2 Not in scope of delivery



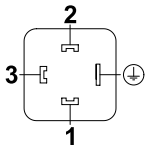
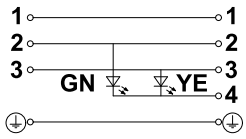
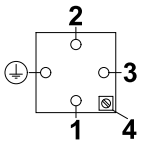
7 Pressure switch (1x) PEV-1/4-B(-OD), PEV-1/4-SC-OD or PEV-1/4-A-SW27-B-OD
8 Cable (1x)

Fig.2

5 Contact assignment

Pin allocation	Pin	Connection
	1	Operating voltage
	2	N/C contact
	3	N/O contact
	4	LED
	⏚	Earthing

Tab. 1: Contact assignment

Electrical connection 1 Field device side	Circuit diagram	Electrical connection 2 Controller side
		

Tab. 2: Circuit diagram

LED green	Yellow LED	Meaning
green light	off	Measured relative pressure is below the threshold value.
off	yellow light	Measured relative pressure is above the threshold value.

Tab. 3: Switching status indication

6 Assembly

6.1 Preparation

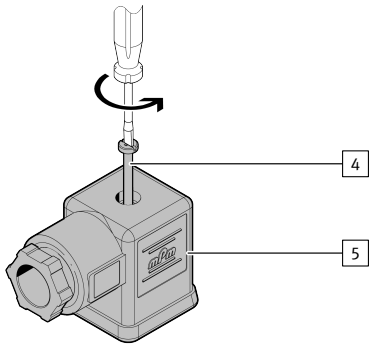


Fig.3

- Screw the central screw 4 out of the housing 5.

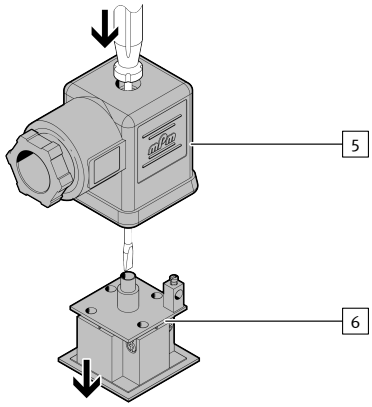


Fig.4

- Press the contact holder 6 out of the housing 5.

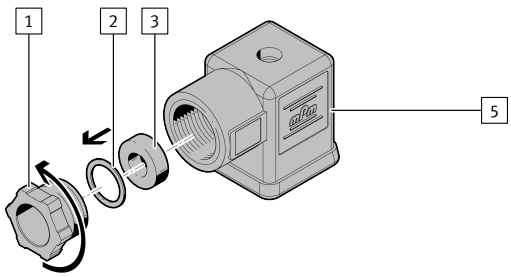


Fig.5

1. Unscrew the pressure screw 1.
2. Remove the washer 2 and the seal 3 from the housing 5.

6.2 Assembling

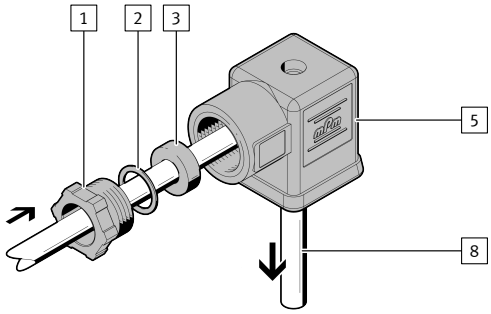


Fig.6

1. Push the pressure screw [1], the washer [2] and the seal [3] onto the cable [8].
2. Run the cable [8] through the housing [5].

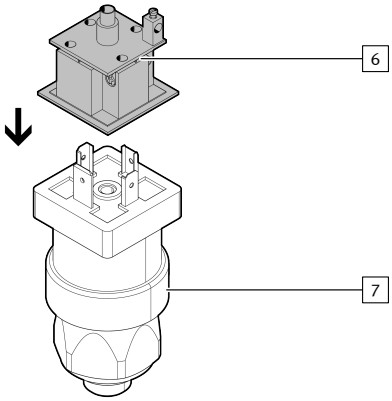


Fig.7

- Plug the contact holder [6] onto the pressure switch [7]. Note the orientation of the contacts.

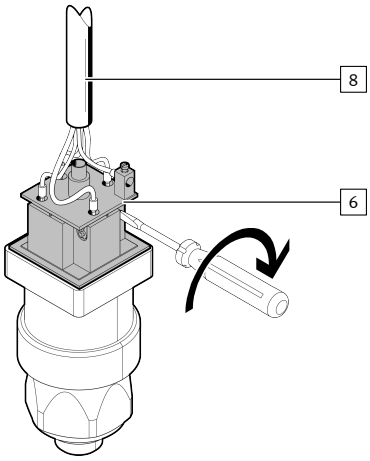


Fig.8

1. Strip the cable [8] by 40 mm.
2. Strip 5 mm of insulation from the conductors. Use wire ferrules with flexible wires.
3. Guide the conductors into the screw terminals of the contact holder [6]. Tighten the screws of the screw terminals. Tightening torque: 0.2 Nm ± 20%

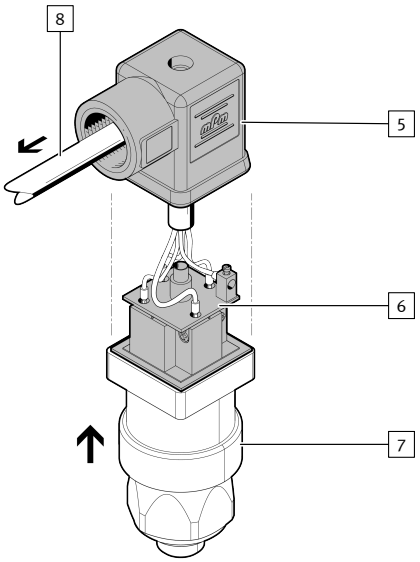


Fig.9

1. Run the cable [8] through the housing [5].
2. Do not cover the hole for the central screw.
3. Plug the housing [5] on the pressure switch [7] with the contact holder [6].

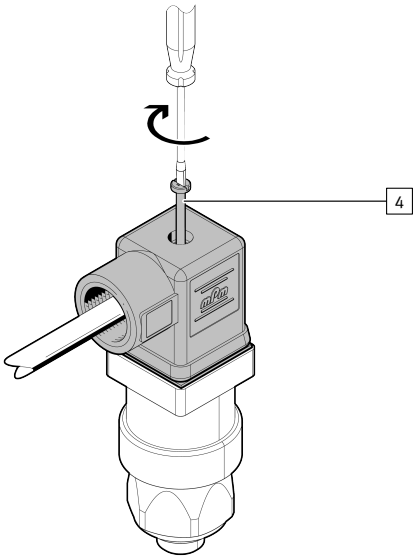


Fig.10

- Tighten the central screw [4]. Tightening torque: 0.55 Nm ± 10%

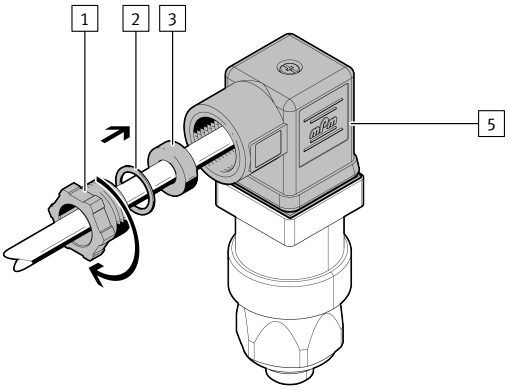


Fig.11

1. Push the seal [3], the washer [2] and the pressure screw [1] into the housing [5].
2. Tighten the pressure screw [1]. Tightening torque: 0.3 Nm ± 20%

PEV-1/4-WD-LED-24		
Certificates, declaration of conformity		➔ www.festo.com/sp
Cable diameter	[mm]	4.5 ... 11.0
Cable fitting		Pg11
Operating voltage range DC	[V]	15 ... 30
Current rating at 40 °C	[A]	8
Degree of protection In assembled state		IP65
Pollution degree		3
Ambient temperature	[°C]	–40 ... +80
Switching status indication		LED green, LED yellow
Electrical connection 1		
Function		Field device side
Connection type		Socket
Connection technology		Plug pattern type A in accordance with EN 175301-803
Number of pins/wires		4
Assigned pins/wires		4
Type of mounting		Central screw M3
Electrical connection 2		
Function		Controller side
Connection technology		Screw terminal
Connection cross section with Wire end sleeve	[mm²]	0.25 ... 1.5
Number of pins/wires		5
Assigned pins/wires		5

Tab. 4: Technical data