

Supplementary instructions

Plug connector Amphenol-Tuchel for level sensors



Contents

1 For your safety	
1.1 Appropriate use	4
1.2 General safety instructions	4
1.3 Safety information for Ex areas	4
2 Connecting to power supply	
2.1 Wiring plans	5
3 Supplement	
3.1 Technical data	8

1 For your safety

1.1 Appropriate use

The plug connectors belong to the accessories for level, switching and pressure sensors. They provide a detachable connection to power supply/signal processing for level switches.

1.2 General safety instructions

The safety instructions in the operating instructions manual of the respective sensor must be noted.

1.3 Safety information for Ex areas

Please note the Ex-specific safety information for installation and operation in Ex areas. These safety instructions are part of the operating instructions manual and come with the Ex-approved instruments.

For instruments with Exd or StEx approval, the use of plug connectors is not allowed.

2 Connecting to power supply

2.1 Wiring plans

Each respective wiring plan shows the assignment of the individual pins of the plug connector for the respective switching outputs. The chart shows the assignment of the individual contact pins to the terminals of the sensor electronics.

Transistor output

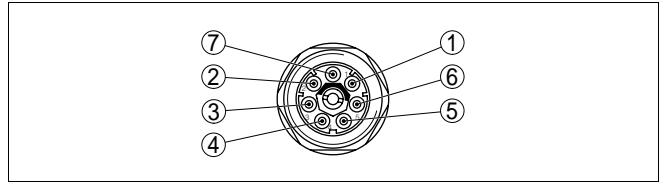



Fig. 1: View to the plug connector

- 1 + (Pin 1)
- 2 Transistor output (Pin 2)
- 3 Transistor output (Pin 3)
- 4 - (Pin 4)
- 5 free (Pin 5)
- 6 free (Pin 6)
- 7 Screen (Pin 7)

Contact pin plug	Colour connection cable	Terminal, electronics
Pin 1	Black	1
Pin 2	Blue	4
Pin 3	Red	3
Pin 4	Yellow	2
Pin 7	Green/yellow	

Relay output

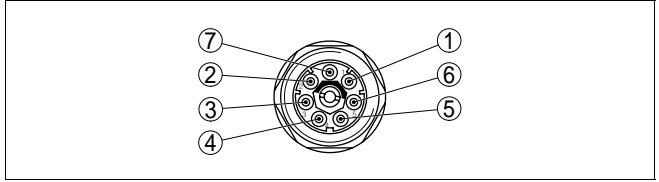



Fig. 2: View to the plug connector

- 1 + (Pin 1)
- 2 - (Pin 2)
- 3 free (Pin 3)
- 4 Relay output (Pin 4)
- 5 Relay output (Pin 5)
- 6 Relay output (Pin 6)
- 7 Screen (Pin 7)

Contact pin plug	Colour connection cable	Terminal, electronics
Pin 1	Black	1
Pin 2	Blue	2
Pin 4	Yellow	3
Pin 5	White	4
Pin 6	Grey	5
Pin 7	Green/yellow	

Two-wire output, contactless electronic switch, Namur output

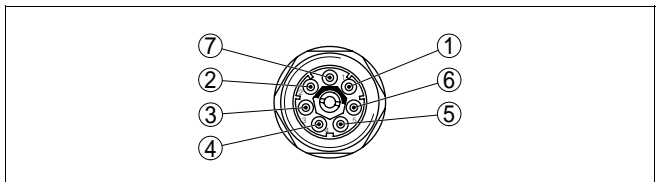



Fig. 3: View to the plug connector

- 1 + (Pin 1)
- 2 - (Pin 2)
- 3 free (Pin 3)
- 4 free (Pin 4)
- 5 free (Pin 5)
- 6 free (Pin 6)
- 7 Screen (Pin 7)

Contact pin plug	Colour connection cable	Terminal, electronics
Pin 1	Black	1
Pin 2	Blue	2
Pin 7	Green/yellow	

3 Supplement

3.1 Technical data

Materials

Carrier material for contacts	PA
Contact	Ag, plated
Housing	PA
Seal	Neoprene

Temperature range

Plug connector - separate	-25 ... +100°C (-13 ... +212°F)
Plug - mounted on the sensor	the lowest temperature is applicable

Electrical data

Operating current ¹⁾	10 A
Operating voltage	250 V AC
Insulation group	C acc. to VDE 0110
Test voltage	1680 V
Insulation resistance	>10 ² MOhm

Protection

Plug connector - separate (closed status)	IP 67
Plug connector - mounted on the sensor (closed status)	the lowest protection is applicable

¹⁾ Up to 55°C (131°F) ambient temperature, see derating of the manufacturer.



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All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.