



Brief Operating Instructions HAW568

Surge Protective Device for field mounting

The following document types are available on the product pages and in the download area of the Endress+Hauser website www.endress.com :

- Technical Information (TI)
- Brief Operating Instructions (KA)
- Safety Instructions (XA)
- Supplementary device-dependent documentation (SD/FY)

Safety instructions

The device may only be connected and installed by an electrically skilled person. National or local standards and safety regulations must be observed. The device must be checked for external damage prior to installation. If any damage or other faults are detected in this check, the device must not be installed or put into operation.

Its use is only permitted within the limits shown and stated in these installation instructions. The device and the equipment connected to can be destroyed by

loads exceeding the values stated. Opening or otherwise tampering with the device invalidates the warranty.

Special conditions:

- The connection between the enclosure of the terminal equipment and local mass must have a minimum cross-section of 4 mm².
- All earth connections must be secured.

Mounting

Mounting the device

Installation steps:

1. Put the device (with wire) inside the screw thread interface of the protected equipment.
2. Connect the wires to the corresponding terminal.
3. Connect shield twisted pair (STP) from control room to terminal 1, 2, 3 of the device.
4. Connect the back hose of the device.

5. Connect the flameproof hose



For installation into a flameproof enclosure using a metric thread, min. 8 threads must be engaged. The protection against twisting and degree of protection (IP) has to be ensured by taking corresponding measures. This can be achieved by using lock nuts with sealing or using Loctite (medium strength) within the threaded holes. The open-end spanner may only be positioned at the threaded end.

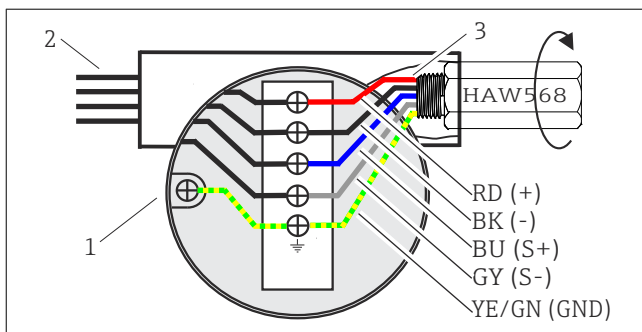
Electrical connection



The wires between surge protective device and protected devices (including ground lines) should be as short as possible and also avoid to be bended. The wire connection schemes are as below.

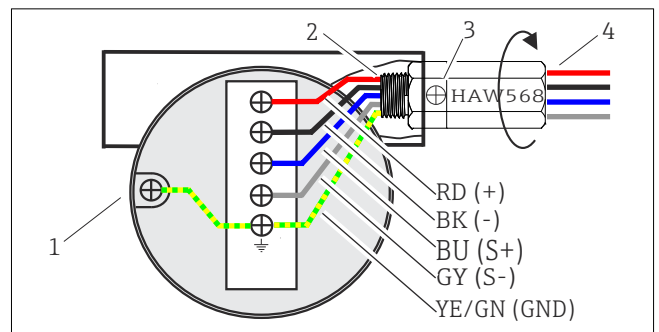
- 3 HAW568, 4-wire connection: Red (+), black (-), blue (S+), grey (S-), yellow/green (GND)

Wire connection for screwed-in version



- 1 Transmitter grounded terminal
- 2 Signal line
- 3 HAW568, 2-wire connection: Red (+), black (-), yellow/green (GND)
- 3 HAW568, 3-wire connection: Red (+), black (-), blue (S+), yellow/green (GND)

Wire connection for lead-through version



- 1 Transmitter grounded terminal
- 2 HAW568, 2-wire connection: Red (+), black (-), yellow/green (GND)
- 2 HAW568, 3-wire connection: Red (+), black (-), blue (S+), yellow/green (GND)
- 2 HAW568, 4-wire connection: Red (+), black (-), blue (S+), grey (S-), yellow/green (GND)
- 3 HAW568 grounding
- 4 Signal lines connect to control room


Maintenance and cleaning

No special maintenance work is required for the device.

| A clean, dry cloth can be used to clean the device.

Environmental Declaration

Name and content of harmful substances

Part Name	Harmful Substance					
	PB	Hg	Cd	Cr6+	PBB	PBDE
Housing and terminals	X	O	O	O	O	O
Circuit board	X	O	O	O	O	O
O	Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T 26572.					
X	Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T 26572 and there is currently no mature alternative method in the industry. The concentration of hazardous substances is within the RoHS directive exemption clauses range, which meets the eco-friendly requirements of the EU RoHS directive.*					
 A0034844	*Indicates that the product contains certain toxic and harmful substances, and it can be used within the eco-friendly period, and should enter the recycling system after the environment protection is exceeded.*					
This form is prepared in accordance with the provisions of SJ / T11364.						

Name and address of manufacturer

Name of manufacturer:	Endress+Hauser Wetzler (Suzhou) Co. Ltd.
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