

Safety Instructions

HAW566/568

Surge Protective Device

Ex ia IIC T6...T4 Ga

Ex ia IIIC T₂₀₀85 °C...T₂₀₀135 °C Da

Ex db IIC T6...T4 Gb



HAW566/568

Surge Protective Device

Table of contents

About this document	3
Associated documentation	3
Supplementary documentation	3
Certificates and declarations	3
Manufacturer address	3
Safety instructions HAW566/568	4
Safety instructions: Installation	5
Safety instructions: Specific conditions of use	6
Temperature tables	6
Electrical connection data	7

About this document

The document number of these Safety Instructions (XA) must match the information on the nameplate.

Associated documentation

To commission the device, please observe the Operating Instructions pertaining to the device:

www.endress.com/<product code>, e.g. HAW566

Supplementary documentation

Explosion protection brochure: CP00021Z

The explosion protection brochure is available on the Internet:

www.endress.com/Downloads

Certificates and declarations**NEPSI certificate**

Certificate number: GYB24.2475X

Affixing the certificate number certifies conformity with the following standards (depending on the device version)

- GB/T 3836.1-2021
- GB/T 3836.2-2021
- GB/T 3836.4-2021

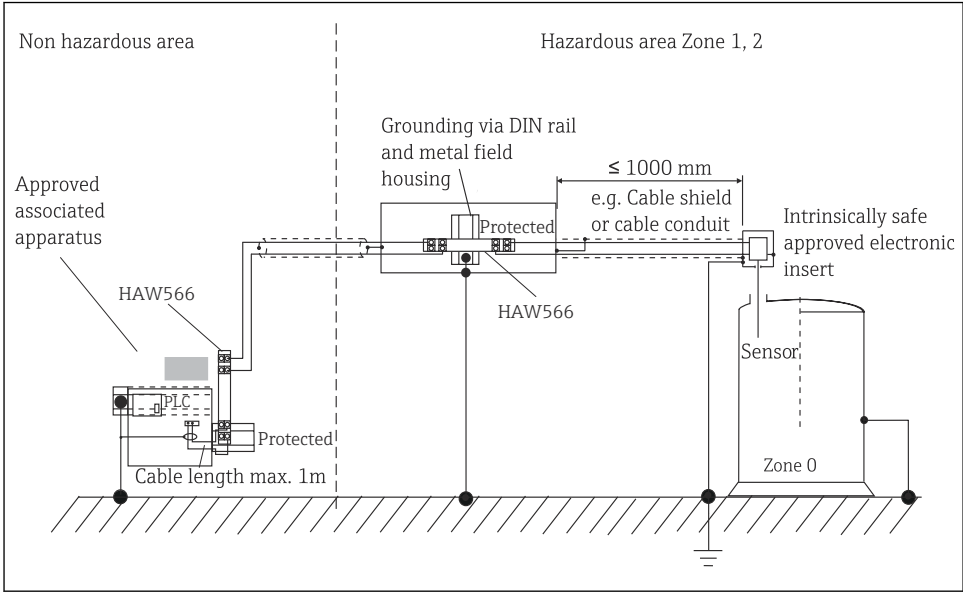


Please refer to NEPSI/CCC certificates for conditions of safe use.

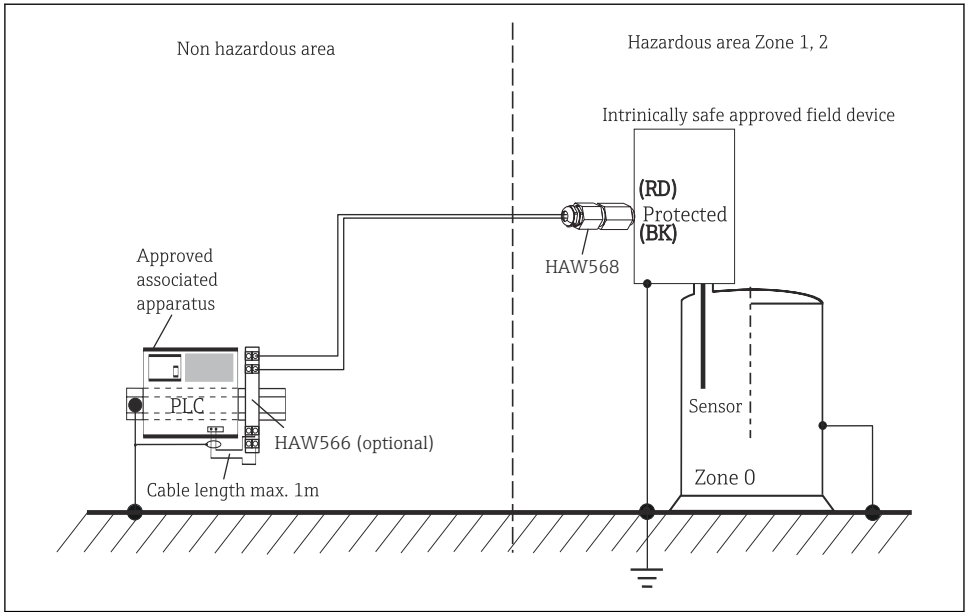
Manufacturer address

Endress+Hauser Wetzler GmbH + Co. KG
Obere Wank 1
87484 Nesselwang, Germany

Safety instructions
HAW566/568



A0056513



A0056520

Safety instructions: Installation

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- The surge protective device must be installed in a metal field housing.
- All metal parts in the potentially explosive area have to be connected to the equipotential bonding system.
- The connection between the enclosure of the terminal equipment and local mass must have a minimum cross-section of 4 mm^2
- When connecting the surge protective device with a certified circuit of category "ib" into an IIC or IIB hazardous area the ignition class changes to: Ex ib IIC or Ex ib IIB.
- The protective device can be used in Fieldbus systems in accordance with the FISCO-Model.

- When the device is used in a Fieldbus system according to FISCO, the power supply shall have infallible galvanic isolation and may not be connected to earth or shall be infallibly connected to the potential equalizing system within the hazardous area.
- The dielectric strength of at least 500 V of the intrinsically safe circuits of the surge protective device is limited only by the overvoltage protection.
- For installation, use and maintenacne of this product, the end user shall observe the instruction manual and the following standards:
 - GB/T 3836.13-2021 “Explosive atmospheres- Part 13:Equipment repair,overhaul,reclamation and modification”.
 - GB/T 3836.15-2017 “Explosive atmospheres- Part 15:Electrical installations design, selection and erection”.
 - GB/T 3836.16-2022 “Explosive atmospheres- Part 16:Electrical installations inspection and maintenance”.
 - GB/T 3836.18-2017 “Explosive atmospheres- Part 18:Intrinsically safe electrical systems”. GB50257-2014 “Code for construction and acceptance of electric equipment on fire and device for explosion hazard electrical installation engineering”.
 - GB15577-2018 “Safety regulations for dust explosion prevention and protection”.

**Safety instructions:
Specific conditions of use**

- According to manufacturer`s instructions, this equipment can be used in hazardous zones.
- All metal parts in the potentially explosive area have to be connected to the equipotential bonding system. The connection between the enclosure of the terminal equipment and local mass must have a minimum cross-section of 4 mm².
- All earth connections have to be secured.

Temperature tables

Type	Temperature class	Ambient temperature
HAW566	T6	-40 °C ≤ Ta ≤ +50 °C
	T5	-40 °C ≤ Ta ≤ +75 °C
	T4	-40 °C ≤ Ta ≤ +80 °C

Type	Temperature class	Ambient temperature
HAW568-NCB	T6/T85 °C	-40 °C ≤ Ta ≤ +70 °C
	T5/T100 °C	-40 °C ≤ Ta ≤ +80 °C
	T4/T135 °C	-40 °C ≤ Ta ≤ +85 °C

Type	Temperature class	Ambient temperature
HAW568-NBA	T6/T85 °C	$-40\text{ °C} \leq T_a \leq +60\text{ °C}$
	T5/T100 °C	$-40\text{ °C} \leq T_a \leq +75\text{ °C}$
	T4/T135 °C	$-40\text{ °C} \leq T_a \leq +80\text{ °C}$

Electrical connection data

Type	Electrical data
HAW566	Power supply $U_i \leq 6\text{ V}_{DC}$ or $U_i \leq 30\text{ V}_{DC}$ $I_i \leq 500\text{ mA}$ $P_i \leq 5.32\text{ W}$ $C_i \leq 0\text{ nF}$ $L_i \leq 0\text{ }\mu\text{H}$

Type	Electrical data
HAW568-NCB	Power supply Intrinsic safety type Flameproof type $U_i \leq 48\text{ V}_{DC}$ or $U_c \leq 48\text{ V}_{DC}$ $I_i \leq 500\text{ mA}$ or $I_{Lmax} \leq 500\text{ mA}$ $P_i \leq 5.32\text{ W}$ or $U_n = 24\text{ V}_{DC}$ $C_i \leq 0\text{ nF}$ $L_i \leq 0\text{ }\mu\text{H}$

Type	Electrical data
HAW568-NBA	Power supply 2-wire 3- and 4-wire $U_i \leq 50\text{ V}_{DC}$ or $U_i \leq 50\text{ V}_{DC}$ $I_i \leq 32\text{ mA}$ or $I_i \leq 16\text{ mA}$ $P_i \leq 0.4\text{ W}$ or $P_i \leq 0.2\text{ W}$ $C_i \leq 0\text{ nF}$ or $C_i \leq 0\text{ nF}$ $L_i \leq 0\text{ }\mu\text{H}$ or $L_i \leq 0\text{ }\mu\text{H}$



71672098

www.addresses.endress.com
