Safety Instructions

HAW562

Surge arrester

ATEX, IECEx:  Ex ia [ia Ga] IIC T6 Gb
# HAW562

Surge arrester

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Associated documentation

All documentation is available on the Internet:  
www.endress.com/Deviceviewer  
(enter the serial number from the nameplate).

If not yet available, a translation into EU languages can be ordered.

To commission the device, please observe the Operating Instructions pertaining to the device:  
www.endress.com/<product code>, e.g. HAW562

Supplementary documentation

Explosion protection brochure: CP00021Z  
The explosion protection brochure is available on the Internet:  
www.endress.com/Downloads

Certificates and declarations

IECEx certificate
Certificate number: IECEx DEK11.0047X  
Affixing the certificate number certifies conformity with the following standards (depending on the device version)
  - IEC 60079-0 : 2017
  - IEC 60079-11 : 2011

ATEX certificate
Certificate number: DEKRA 11ATEX0126 X

EU Declaration of Conformity
Declaration number: EC_00075  
The EU Declaration of Conformity is available on the Internet:  
www.endress.com/Downloads

Certificate holder

Endress+Hauser Wetzer GmbH + Co. KG  
Obere Wank 1  
87484 Nesselwang, Germany
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 arrester 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 mm².
- All earth connections have to be secured.
- When connecting the surge arrester 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 arrestor is limited only by the overvoltage protection. Terminals 3, 4, 3’ and 4’ are considered to be connected to earth.

Safety instructions: Zone 0

(These instructions are only valid if the unit is to be installed directly in the zone 0 (category 1)/EPL Ga.)

- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14).
- Between every core, which is not connected to grounding, is to be installed a surge arrester.
- The conductor between surge arrester and Zone 0 must be limited to maximum one meter.
- The protected conductors can be fed into Zone 0.
- Grounding must be as close as possible to the electrical apparatus reaching into Zone 0, however not inside Zone 0.
- The conductors between surge protection and Zone 0 must be constructed to avoid impacts of lightning.

<table>
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<tr>
<th>Type</th>
<th>Temperature class</th>
<th>Ambient temperature</th>
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<tbody>
<tr>
<td>HAW562</td>
<td>T6</td>
<td>–40 °C ≤ Ta ≤ +50 °C</td>
</tr>
<tr>
<td></td>
<td>T5</td>
<td>–40 °C ≤ Ta ≤ +75 °C</td>
</tr>
<tr>
<td></td>
<td>T4</td>
<td>–40 °C ≤ Ta ≤ +80 °C</td>
</tr>
</tbody>
</table>

Temperature tables

Electrical connection data

<table>
<thead>
<tr>
<th>Type</th>
<th>Electrical data</th>
</tr>
</thead>
</table>
| HAW562 | Power supply (Terminals 1, 3 and 2, 4 or 1’, 3’ and 2’, 4’)
|        | $U_i \leq 17.5\, V_{\text{DC}}$ or $U_i \leq 30\, V_{\text{DC}}$
|        | $I_i \leq 380\, \text{mA}$
|        | $P_i \leq 5.32\, \text{W}$
|        | $C_{i} \leq 0\, \text{nF}$
|        | $L_i \leq 0\, \mu\text{H}$
<p>|        | Applicable for connection to a Fieldbus system according to FISCO-model.       |</p>
<table>
<thead>
<tr>
<th>Category</th>
<th>Type of protection (ATEX, IECEx)</th>
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<tbody>
<tr>
<td>II 2(1) G</td>
<td>Ex ia [ia Ga] IIIC T6...T4 Gb</td>
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