

FLOW SWITCH FL-A / LEVEL SWITCH LS-A INSTALLATION INSTRUCTIONS



II 1/2 GD

Ex db IIC T6 Ga/Gb, Ex tb IIIC T85°C Da/Db (Ta = -60°C to 70°C)
Ex db IIC T4 Ga/Gb, Ex tb IIIC T135°C Da/Db (Ta = -60°C to 120°C)

Baseefa 16ATEX0049X
IECEx BAS16.0034X

This instrument has been designed for installation within an explosive atmosphere and complies with the following standards:
IEC 60079-0 : 2011, IEC 60079-1 : 2014, IEC 60079-26 : 2014, IEC 60079-31 : 2013 and EN 13643-1:2009

Special Conditions for Safe Use

- External earth bonding of the stainless steel enclosure may be achieved via the external mounting thread and/or the threaded cable entry.
- When used in dust atmospheres the separately certified cable gland arrangement shall maintain the IP6X rating of the enclosure.
- The flameproof gap of the rotating terminal head is smaller than the maximum permitted by Table 3 of IEC60079-1. Consult the manufacturer for details if required.
- It is the responsibility of the installation engineer to ensure that the IP rating of IP66/67 of the equipment is maintained between the hazardous area requiring EPL Ga and the less hazardous area.
- It is the responsibility of the installation engineer to ensure that suitably rated cable and cable glands are used to install this equipment.
- Only fasteners of type M4 x 0.7 6g socket set screw DIN913 type 316 stainless steel may be used for preventing rotation of the lid and/or WLR connection head in the installed position.
- The process medium must not exceed the ambient temperature range of the equipment.

Further Installation Considerations

- The lid of the enclosure must be fully tightened down to maintain both IP rating and explosion protection, the M4 x 0.7 6g grub screw must be further tightened to prevent the lid from being un-screwed.
- The flamepaths are not to be repaired. The partition wall is manufactured from AISI Stainless Steel 316.
- The purchaser must consult the manufacturer regarding any aggressive substances or external effects that may affect the equipment.

Connection Details

- The enclosure is supplied with terminals suitable for conductor sizes 0.08 - 2.5mm² (28 - 12 AWG). Internal earth connection provided.
- External earthing is via the mounting or entry threads.
- The instrument utilises Microswitch switching elements rated as follows:

Supply Voltages: 115V AC, 125V AC, 250V AC, 30V DC
UL Rating: 4A @ 250V AC
Maximum In-rush Current: 24A

Connection Diagram

<input type="checkbox"/>	<input type="checkbox"/>	6	N/CLOSED	II
<input type="checkbox"/>	<input type="checkbox"/>	5	COMMON	II
<input type="checkbox"/>	<input type="checkbox"/>	4	N/OPEN	II
<input type="checkbox"/>	<input type="checkbox"/>	3	N/CLOSED	I
<input type="checkbox"/>	<input type="checkbox"/>	2	COMMON	I
<input type="checkbox"/>	<input type="checkbox"/>	1	N/OPEN	I
<input type="checkbox"/>	<input type="checkbox"/>	⊕	EARTH	

WLR Version - Connection Head Positioning

The rotatable connection head (WLR) can be orientated to suit the particular installation via loosening of the lower grub screw located on side of the connection head and rotating the head by hand. Re-tighten the grub screw to lock the position of the head.

W Version - Conduit Connection

Conduit Unions (suitability certified) may be used on -W designated switches. These allow for modification and removal of enclosures without turning or removing of the conduit.

Part Numbering

