



Ionisation Level Detector ISH-2

 Certificate: ATEX



The radiation source must fall vertically normally to the lid of the device casing or vertically to the rear wall of the casing.

Application:

The ionisation level detector is intended for one-point check of limit levels of loose or fluid substances in containers as well as of limit positions of transportation devices, monitoring and indicating of end positions of transportation devices and other applications in heavy-duty services. The design of these devices is in pressure-proof casings and secured designs. It is intended for installation into rooms with a combustible gas explosion hazard.

Description and Functions:

The device consists of an explosion-proof electric box comprising two explosion-proof casings interconnected with an explosion-proof bushing. The device casing is in Ex d II design, the terminal casing is in a protected design Ex e II. The instrument rack is made of polyester reinforced with glass fibres.

In the instrument space, there is a detector electronics printed circuit board. The ionisation detector indicates an ionisation radiation ray coming from a radiation source, which is a radionuclide emitter (for example cobalt Co60). It is placed in the protected shielding casing with lead filling. When filled to the specified controlled material level in a container, the radiation ray will be shielded by the material. This status is indicated by closing of a relay output or by emitting of voltage pulses for further processing.

Technical Specifications:

Design	II 2 G Ex d e IIC T6
Supply voltage	230 VAC
Power input	5W
Output	
relay	1A 24VDC max
voltage pulses	10V 100mA max
Temperature range	-20 to 40°C
Relative humidity	95%, non-condensing
Ingress protection	IP65
Dimensions, incl. bushings	355 x 203 x 155mm
Weight	6.5kg

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.