

Use of float switches in accordance with directive 2014/34/EU (ATEX) in potentially explosive atmospheres - zones 2/22

Float switches are "simple" items of electrical operating equipment in accordance with DIN EN 60079-11 para. 5.7 which do not themselves possess a voltage source and whose maximum ratings and heating characteristics are known.

The electrical components comprise reed contacts, bimetal thermostats, plug-type connectors and terminals.

The design of the float switch complies with the building regulations according to
--> DIN EN 60079-0 ((Equipment - General requirements)),
--> DIN EN 60079-11 (Equipment protection by intrinsic safety "i") and
--> DIN EN 60079-26 (Equipment with Equipment Protection Level (EPL) "Ga")

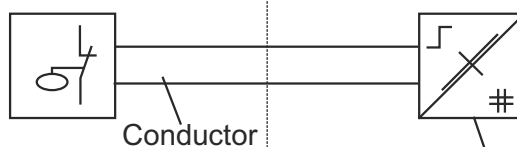
These simple items of electrical operating equipment may be used, in accordance with DIN EN 60079-14 (Explosive atmospheres - Electrical installations design, selection and erection), in intrinsically safe circuits [Ex ic] without labelling and certification systems for device group II and category 3 G/D (for zone 2/22).

In potentially explosive atmosphere

Intrinsically safe, electrical operating equipment

In safe atmosphere

Associated electrical operating equipment



Device group II
(other explosion prevention and protection)
zone 2 gas/ 22 dust [Cat 3G (Gc) / 3D (Dc)]
temperature class T6
(max. 85°C self-heating on housing surface)
-20°C < Ta < +80°C

Certified isolator or
switching repeater (1 or 2 channels)
in protection type [Ex ia or Ex ib] IIC

Subject to change