

# Use of level and temperature indicators according to Directive 2014/34/EU (ATEX) in potentially explosive areas Zone 2/22 areas

Level and temperature indicators are "simple" items of electrical operating equipment in accordance with DIN EN 60079-11:2012-06 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 switch, thermocouples, resistors, bimetal thermostats, plug-type connectors and terminals.

The design of the devices complies with the building regulations according to --> DIN EN 60079-0:2018 ((Equipment - General requirements)), --> DIN EN 60079-11:2012 (Equipment protection by intrinsic safety "i") and

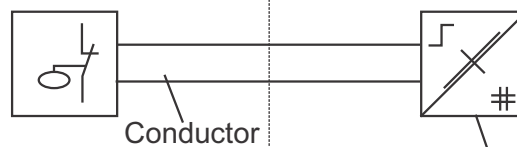
These simple items of electrical operating equipment may be used, in accordance with DIN EN 60079-14:2014-10 (Explosive atmospheres - Electrical installations design, selection and erection), in intrinsically safe circuits [Ex ic] without labelling and certification systems for device group II and category 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)  
 $-20^{\circ}\text{C} < T_a < +80^{\circ}\text{C}$

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

Änderung vorbehalten