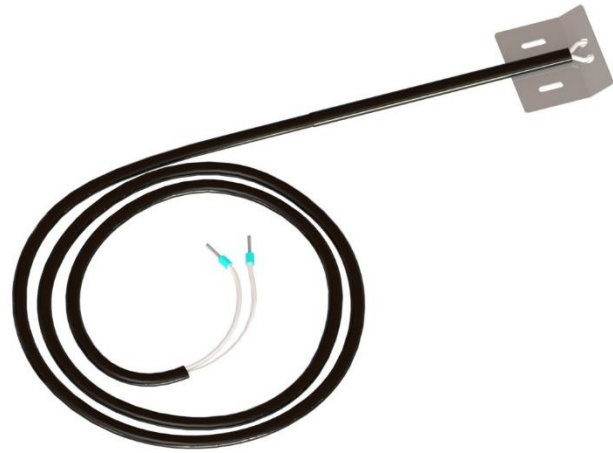




OPENING INDICATOR G1

VMP is an explosion venting device designed to protect explosion-proof technologies. Under normal operating conditions, the venting hole on the technology is covered by a VMP, which opens only when the opening pressure has been reached since the explosion. This will relieve the explosion into the surrounding area and reduce the pressure inside the protected technology below its pressure resistance.



This datasheet describes the VMP cable indicator. It is a stainless steel plate through which the cable is threaded (see picture). This stainless steel plate is firmly snapped into the universal bracket, which is permanently attached to the VMP. The indicator cable is tightened through the grommet in the indicator holder or the upper VMP frame (if it is from the L profile). In case of opening the VMP during an explosion, this cable is interrupted and customer receives signal. An intrinsically safe circuit must be used as an interruption evaluation device. This means that the power supply to the position indicator must not exceed 10.6 V DC or 24mA. An intrinsically safe relay forms the interface between the safe and hazardous zones. The position indicators can be connected in series.

DATASHEET

CABLE CLASSIFICATION	
Operating temperature	-55 °C to 150 °C
Input voltage [max.]	10.6 V DC
Input current [max.]	24 mA

To install the open indicator on VMP:



1. Use a suitable tool (flat screwdriver, pliers) to bend the indicator holder metal strip.
2. Place the cable indicator on the indicator plate with the cable routed as shown.
3. Bend the indicator holder packs again with a suitable tool.





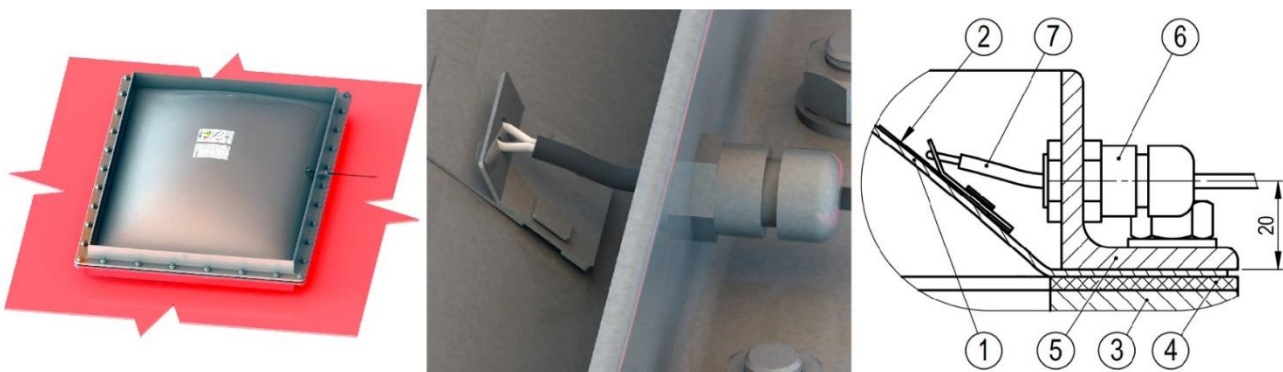
To install the indicator cable into the grommet:

The installation depends on the VMP installation method, whether the top frame is flat or from L profiles.

Top frame flat:



Top frame made of L profiles:



1. After installing the indicator on the VMP, it is necessary to mount the cable gland in the prepared thread of the M12x1.5 L-frame upper frame or in the cable gland holder. The grommet must be insured with a lock nut.
2. The indicator cable must be threaded through the grommet, tightened and tightened with a torque of $\mu = 30 \text{ Nm}$. The grommet must be suitable for th. 3 mm cable.
3. The cable may further be connected to a suitable device (system) for signaling the opening of the VMP.

Position	Components
1	VMP
2	Position indicator plate
3	Protection equipment
4	Seal
5	Top frame (flat or made of L profiles)
6	Cable gland M12x1,5 (cable thickness 3 mm)
7	Opening indicator G1
8	Cable gland holder ¹⁾

¹⁾ In case of installation on flat VMP (type F), one piece of ISO 4070 washer must be used between bracket and VMP for each bracket bolt (see user manual).