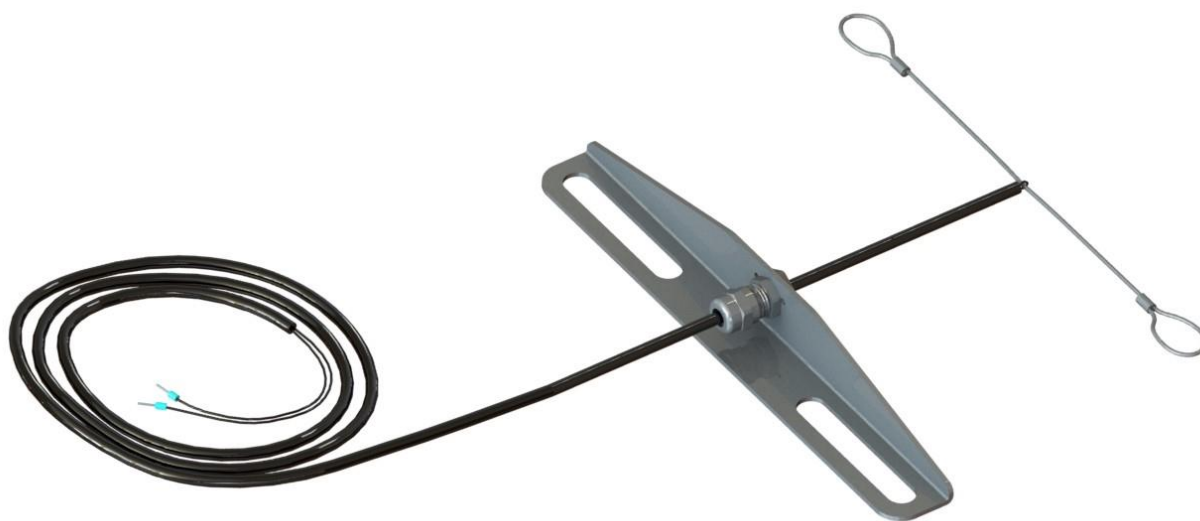




Fire and explosion protection

OPENING INDICATOR G3



DATASHEET

VMP is an explosion venting device designed to protect technologies that are at risk of explosion. 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 additional VMP indicator.

The G3 opening indicator can be retrofitted to the VMP. This indicator consists of a stainless steel cable on which the insulated cable is fixed by means of a shrink tubing. This cable is tightened through the VMP bulge (see figure) and tightened through the grommet on the other side of the VMP. The stainless steel cable with the cable must be on the side where the VMP opens. If the VMP is opened during an explosion, the cable will be broken 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 24 mA. This is done by the so-called intrinsically safe relay, which creates the interface between the safe and a dangerous zone. The position indicators can be connected in series.

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





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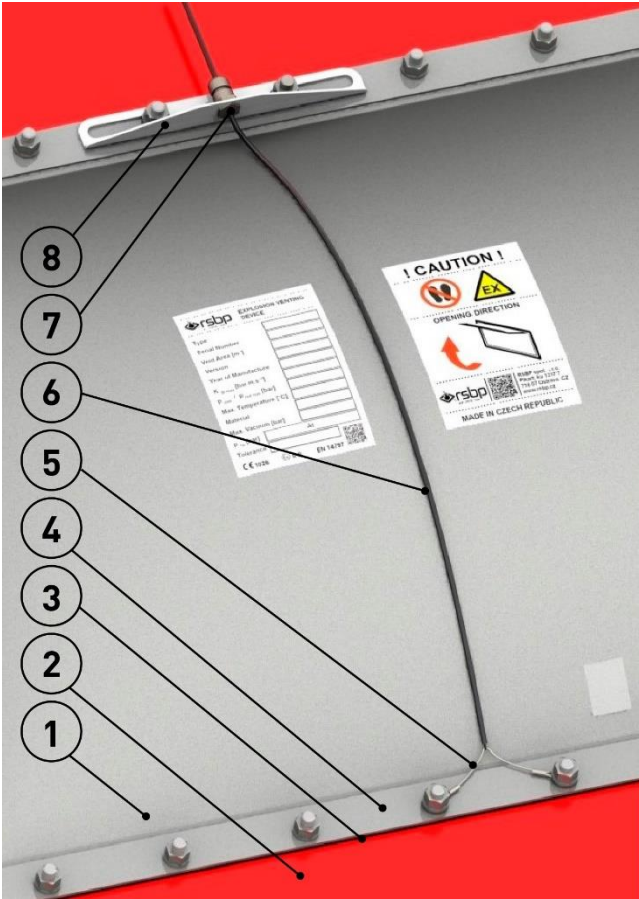
DATASHEET



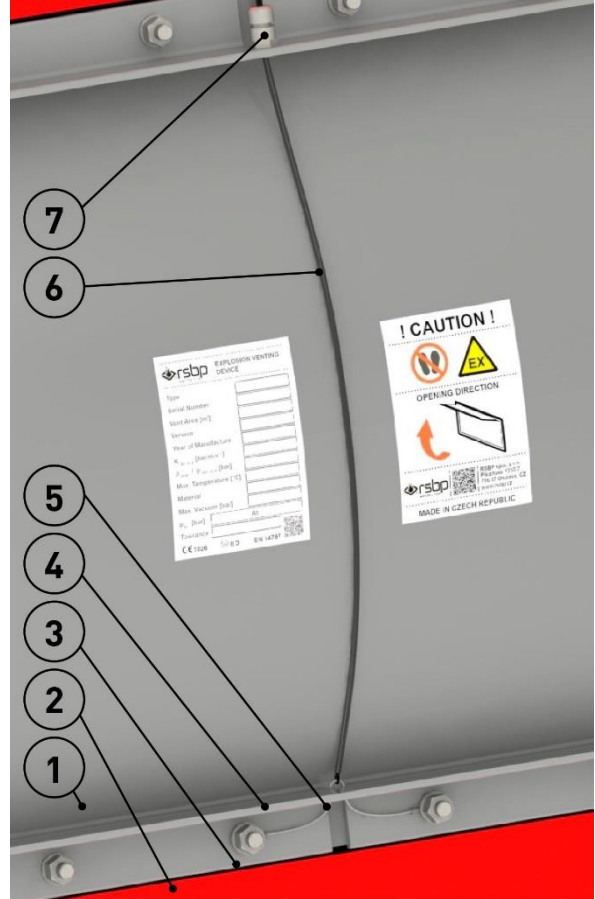
To install the indicator on VMP:

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

Top frame flat (integrated):



Top frame made of L profiles:



1. Fasten the cable with stainless steel cable (item 5) using two screws on the frame (see fig.)
2. The cable is then threaded through the bushing, tensioned and tightened with a torque of $M_u = 30 \text{ Nm}$. The grommet must be suitable for th. 3mm cable and locked with lock nut.
3. The cable must also be connected to a suitable device (system) to signal the opening of the VMP.

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

¹⁾ For flat VMP (type F) installation, one ISO 4070 washer must be used between the bracket and the VMP for each bracket bolt (see user manual).

