

## EM-BI-II EXPLOSION VENT BURST INDICATOR

### DESCRIPTION

The Fike EM-BI-II Explosion Vent Burst Indicators have been developed to detect the opening of explosion vents and can initiate a process shutdown. This will reduce the effects of the ensuing explosion and may avoid further propagation of flames or burning particles to other parts of the process. The EM-BI-II Indicator can be installed externally on most Fike explosion vents using a simple mounting bracket (included in kit). The EM-BI-II Explosion Vent Burst Indicator will instantaneously detect the movement of the explosion vent when opening via a flexible Stainless Steel sensor. This movement will initiate the electrical changeover of a contact (see installation sketch below).





#### APPROVALS:

- CE
- ATEX

### FEATURES AND BENEFITS

- Rigid enclosure with shock proof thermoplastic construction
- Corrosion resistant / weatherproof design
- Easy installation and replacement; no requirement for local junction box, directly wired
- 1 normally closed contact (NC) and 1 normally open contact (NO) rated 6A / 250VAC; 0.25A / 230VDC
- Reusable after an explosion; dependent upon severity
- IP67
- ATEX approved

## SPECIFICATIONS

<b>Type</b>	EM-BI-II (P/N 29914700-S)	
<b>Materials</b>	Enclosure Glass-fibre reinforced Shock-proof thermoplastic Self-extinguishing UL 94-V0	
<b>Ambient Temperature</b>	-20°C to +65°C	
<b>Suitable for Explosion Vent Models</b>	CV / HI-CV / CV-S / HI-CV-S / CV-CF / HI-CV-CF / CV-I <sup>1</sup> / CV-S-I <sup>1</sup> / Sani-V / Sani-V-S / EleGuard <sup>2</sup>	
<b>Supply and Signal Circuit</b>	Voltage $U_i$	250VAC
	Current $I_i$	6A
	$I_e / U_e$	6A / 250VAC 0.25A / 230VDC
<b>Electrical Connection</b>	Contact Configuration	1 NC and 1 NO
	Contact Material	Silver
	Gland	M20 x 1.5
	Terminals	M3 Screw Clamps
	Cores	Max. 1.5 mm <sup>2</sup>
<b>Cable</b>	The electrical junction box is provided with a cable gland P <sub>G</sub> 13.5	
<b>Approvals</b>	CE DMT 01 ATEX E118  II 2G Ex de IIC T6  II 2D ex tD A21 IP67 T80°C	

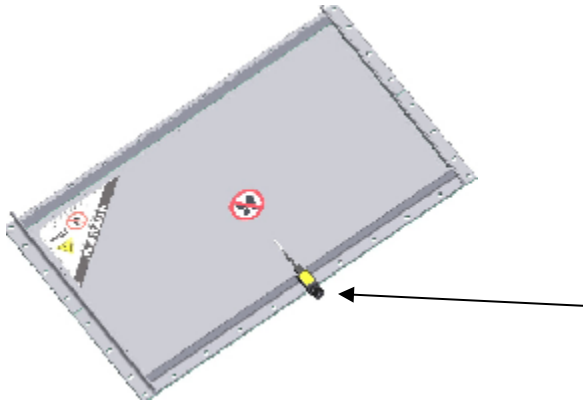
(1) Temperature max. 80°C.

(2) With special support.



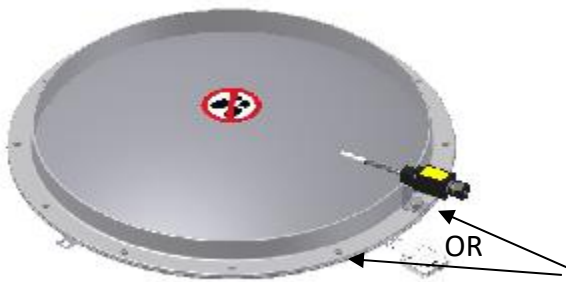
## MOUNTING / POSITIONING OF FIKE EXPLOSION VENT BURST INDICATOR

### For rectangular explosion vents



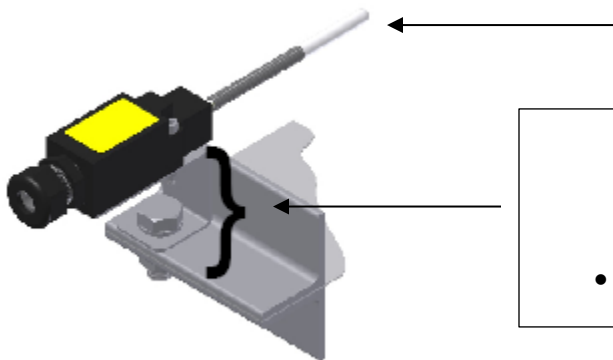
Install EM-BI-II burst indicator at  
NON-OPENING SIDE

### For circular explosion vents



Install EM-BI-II burst indicator at  
NON-OPENING SIDE

### Components and accessories



Flexible sensor

#### Mechanical support

- Standard for LAF frames from 40 to 45 mm
- On request for other frames