

## DUST LAYER ACCUMULATION (DLA) SENSOR

### DESCRIPTION

The DLA is an optional component that is field mounted directly to Fike's ValvEx® or Dual Flap isolation valves. The function of the DLA is to detect the build-up of dust (10 mm [0.39 in]) that may have accumulated at the bottom of the isolation valve, which can prevent the valve flaps from fully closing.

The DLA sensor connects to the facilities programmable logic controller (PLC) either directly or through the optional Fike Interface Module (Refer to datasheet X.1.104.01). Upon activation of the sensor, a signal is sent to the PLC to indicate the unsafe condition. The accumulated dust must be cleared to ensure proper operation of the isolation valve. The sensor will reset once the accumulated dust is removed.



### ORDERING

Part Number	Description
02-15850	Dust Layer Accumulation Sensor

### SPECIFICATIONS

Switching function	Normally open (NO)
Output type	NAMUR
Sensing range	10 mm (0.39 in)
Installation	Flush
Approvals	ATEX – IEC – cETLus
Electrical design	Intrinsically safe circuits
Nominal voltage	8.2 Vdc (R <sub>i</sub> approx.. 1kΩ)
Operating voltage	5 – 15 V
Current consumption	≤ 1.5mA measuring plate not detected ≥ 2.5 mA measuring plate detected
Ambient temperature	-20°C to 70°C (-4°F to 158 °F)
Connection type	Cable PUR, 2 m (6.56 ft.)
Core cross-section	2 x 0.75 mm <sup>2</sup>
Wiring	2-wire (BN – brown, BU – blue)
Housing material	Stainless steel 1.4305/AISI 303
Sensing face	PTFE
Degree of protection	IP67