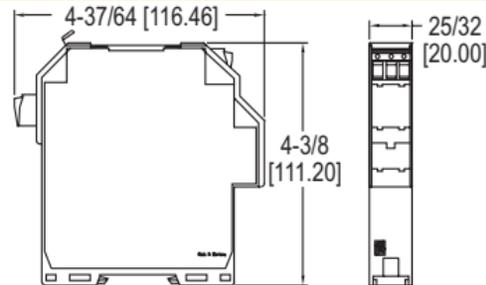


## MODEL KFD0

# GALVANIC BARRIER

Loop Powered, Intrinsically Safe Isolators



The **MODEL KFD0** Loop Powered Galvanic Barrier provides complete isolation for communication with Dwyer® intrinsically safe transmitters approved for use in hazardous areas. This galvanic barrier eliminates the need for a high integrity earth ground required when using shunt type diode type safety barriers. Unlike most other isolators, the Model KFD0-SCSEX1.55 does not require external power and has a low current draw.

### FEATURES/BENEFITS

- Designed to mount on most standard DIN rails
- Approved for use in hazardous areas

### APPLICATIONS

- Used to isolate voltages for intrinsically safe applications for HHT series

### MODEL CHART

Model	Description	Approval	Dwyer Series	Vo (V)	Io (mA)	Group	μF	mH
KFD0-SCS-EX1.55	Loop powered galvanic barrier	FM for class I, zone 1, groups IIC, IIB, IIA; class I, II, III, div. 2, groups A, B, C, D, F, G	HHT-IX	23.1	38.2	IIC (A, B), IIB (C), IIA (D, F, G)	0.042, 0.267, 0.267	0.5, 2.5, 2.5

### SPECIFICATIONS

**Hazardous Area Input:** Signal range: 4 to 20 mA (linear transmission 1 to 22 mA); Available transmitter voltage:  $\geq 16$  V for supply voltage  $> 21$  V.  
**Safe Area Output:** Signal range: 4 to 20 mA; Transmitter voltage:  $\leq 30$  VDC.  
**Response Time:**  $\leq 20$   $\mu$ s at 0, and  $\leq 600$   $\mu$ s at 800 load.

**Maximum Power Dissipation:** 150 mW @ 20 mA and  $V < 24$  V.  
**Temperature Limits:**  $-4$  to  $140^{\circ}$ F ( $-20$  to  $60^{\circ}$ C).  
**Temperature Drift:**  $\leq 0.5$   $\mu$ A/ $^{\circ}$ C.  
**Weight:** 4.2 oz (120 g).  
**Agency Approvals:** CE, FM.

### ACCESSORIES

Model	Description
A-360	Aluminum DIN rail 1 m