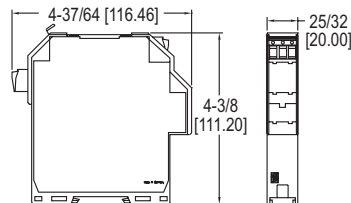


# GALVANIC BARRIER

## Loop Powered, Intrinsically Safe Isolators



The **Model KFD0 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

SPECIFICATIONS	
<p><b>Hazardous Area Input:</b> Signal range: 4-20 mA (linear transmission 1-22 mA); Available transmitter voltage: <math>\geq 16</math> V for supply voltage <math>&gt; 21</math> V.</p> <p><b>Safe Area Output:</b> Signal range: 4-20 mA; Transmitter voltage: <math>\leq 30</math> VDC.</p> <p><b>Response Time:</b> <math>\leq 20</math> <math>\mu</math>s at 0, and <math>\leq 600</math> <math>\mu</math>s at 800 load.</p>	<p><b>Maximum Power Dissipation:</b> 150 mW @ 20 mA and <math>V &lt; 24</math> V.</p> <p><b>Temperature Limits:</b> -4 to 140°F (-20 to 60°C).</p> <p><b>Temperature Drift:</b> <math>\leq 0.5</math> <math>\mu</math>A/°C.</p> <p><b>Weight:</b> 4.2 oz (120 g).</p> <p><b>Agency Approvals:</b> CE, FM.</p>

ACCESSORIES	
Model	Description
A-360	Aluminum DIN rail 1 m

MODEL CHART								
Model	Description	Approval	Dwyer Series	Vo (V)	Io (mA)	Group	$\mu$ F	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