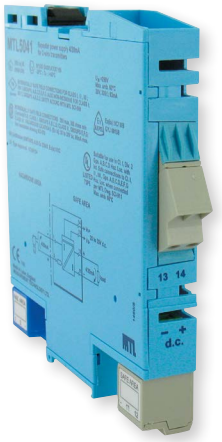
SERIES MTL5541 | GALVANIC BARRIER

FEATURES/BENEFITS

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



APPLICATIONS

- Electrically isolates pressure and level transmitters from unregulated circuits for intrinsically safe applications

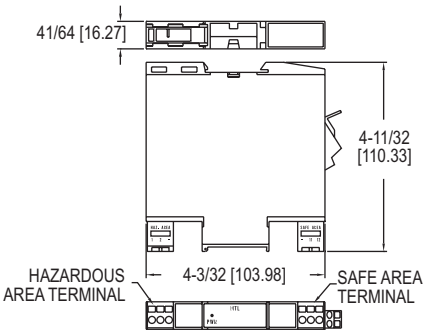
DESCRIPTION

The **Series MTL5541 Galvanic Barrier** provides intrinsically safe isolation for communication with Dwyer® 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. DIN rail mounting and plug-in signal and power connectors simplify installation and maintenance.

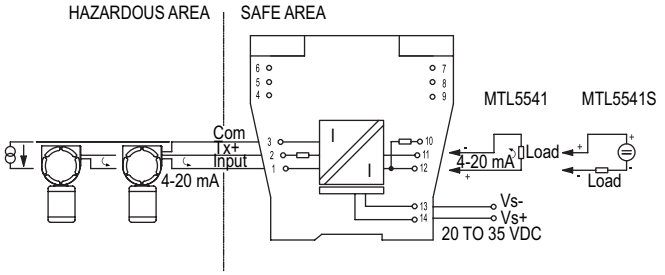
SPECIFICATIONS

Hazardous Area Input	Signal range: 0 to 24 mA (including over-range); Transmitter voltage: 16.5 V at 20 mA.
Safe Area Output	Signal range: 4 to 20 mA; Under/over-range: 0 to 24 mA; Load resistance: 0 to 360Ω @ 24 mA, or 0 to 450Ω @ 20 mA; Current sink: 600Ω max.; Maximum Voltage Source: 24 VDC; Output resistance: > 1 MΩ.
Power Requirement	20 to 35 VDC.
Response Time	Settles to within 10% of final value within 50 µs.
Current Consumption	51 mA @ 24V.
Maximum Power Dissipation	0.7 W @ 24 VDC, 1.0 W @ 24 VDC.
Isolation	250 V RMS, tested at 1500 V RMS minimum, between safe- and hazardous-area terminals; 50 V between safe-area circuits and power supply.
Transfer Accuracy at 68°F (20°C)	Better than 15 µA.
LED Indicator	Green: Power Indication.
Temperature Limits	Operating: -6 to 140°F (-20 to 60°C); Storage: -40 to 176°F (-40 to 80°C).
Temperature Drift	< 0.8µA/°C.
Humidity	5 to 95% RH.
Mounting	T-section 35mm DIN rail (7.5 or 15mm) to EN 50022.
Terminals	Accommodate up to 2.5 mm2 stranded or single-core.
Safety Description	V_o= 28 V, I_o= 93 mA, P_o= 651mW, Um= 253 RMS or DC.
Weight	150 g.
Agency Approvals	See table.

DIMENSIONS



WIRING DIAGRAM



HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

MTL5541

SERIES
MTL5541 - Galvanic barrier

ACCESSORIES

Model	Description
A-360	Aluminum DIN rail 1 m