

Signet 6400 Intrinsic Safety Barriers



Features

- One step, snap-on 35 mm DIN rail mounting and grounding
- Replaceable 160 mA fuse
- Lowest internal resistance
- Common ½ in. wide housing for single channel versions
- Short-circuit proof connections
- FM, UL, CSA approved
- Compatible with Signet 515 and 525 flow sensors

Description

Georg Fischer Signet offers single channel intrinsic safety barriers for use with the 515 and 525 paddlewheel flow sensors.

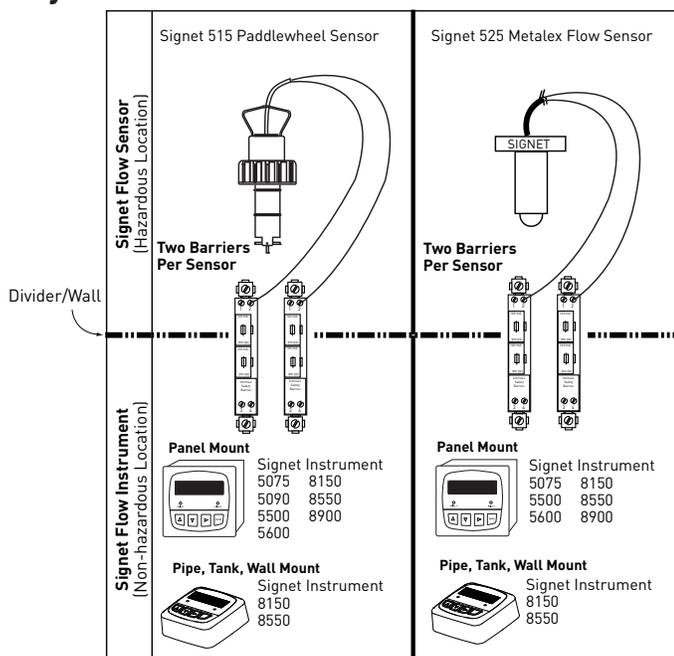
Both versions use a ½ inch wide housing which snaps directly to a 35 mm DIN rail. Once mounted, an electrical connection is formed between the barrier and the rail. The rail serves as the intrinsic safety ground bus when connected to the designated grounding point. Two

additional ground lugs are provided and may be used as a redundant grounding method or for terminating shields.

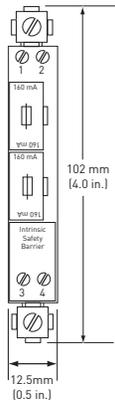
Each barrier also contains a replaceable 160mA fuse cartridge for each channel. Safety barriers are polarity sensitive devices and are available in +DC and AC voltage ratings.



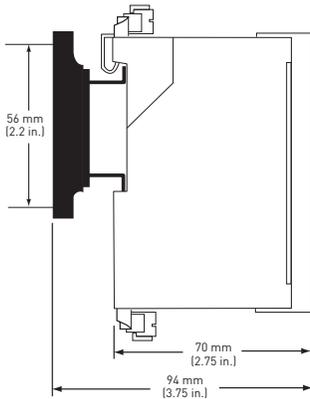
System Overview



Dimensions



Front View



Side View

Specifications

General

Housing Material: Polyamide

Mounting Method:

- NS35/15 DIN Rail (standard)
- Surface Mount (with adaptor)

Screw terminal size:

- Four #14 AWG (1.5 mm²) captured, self-opening
- Two #12 AWG (4.0 mm²) for ground and shield

Electrical

Rated Voltage:

6400-9001

- Voltage Range: 16-18 V
- Internal Resistance: 2220 Ω
- Short-circuit proof at rated voltage
- Open circuit voltage: 19.9 V
- Short circuit current: 9.1 mA
- Max. power transfer: 0.045W
- Allowed capacitance: 0.34 μA

6402-9001:

- Voltage Range: 6-7.7 V
- Internal Resistance: 338 Ω
- Short-circuit proof at rated voltage
- Open circuit voltage: 9.6 V
- Short circuit current: 29.2 mA
- Max. power transfer: 0.070W
- Allowed capacitance: 3.70 μA

Environmental

Operating Temperature:

-20 ° to 60 °C [-4 ° to 140 °F]

Storage Temperature:

-40 ° to 75 °C [-40 ° to 167 °F]

Relative Humidity:

Up to 95%, non-condensing

Shipping Weight 100 g 0.22 lb

Standards and Approvals

- UL, CSA
- FM Class I, II, III/groups A-G

Ordering Information

| Mfr. Part No. | Code | Description |
|---------------|--------------------|--|
| 6400-9001 | 159 001 466 | Intrinsic Safety Barrier for use with Signet 515 flow sensor (2 per sensor required) |
| 6402-9001 | 159 001 486 | Intrinsic Safety Barrier for use with Signet 525 flow sensors (2 per sensor) |

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