

Signet 6400 Intrinsic Safety Barriers



Features

- One step, snap-on 35mm DIN rail mounting and grounding
- Replaceable 160mA fuse
- Lowest internal resistance
- Common 1/2 in. wide housing for single channel versions
- Short-circuit proof connections
- FM, UL, CSA approved
- Compatible with Signet 515, 525 and 2517 flow sensors

Description

George Fischer Signet offers single channel intrinsic safety barriers for use with the 515, 525 and 2517 paddlewheel flow sensors.

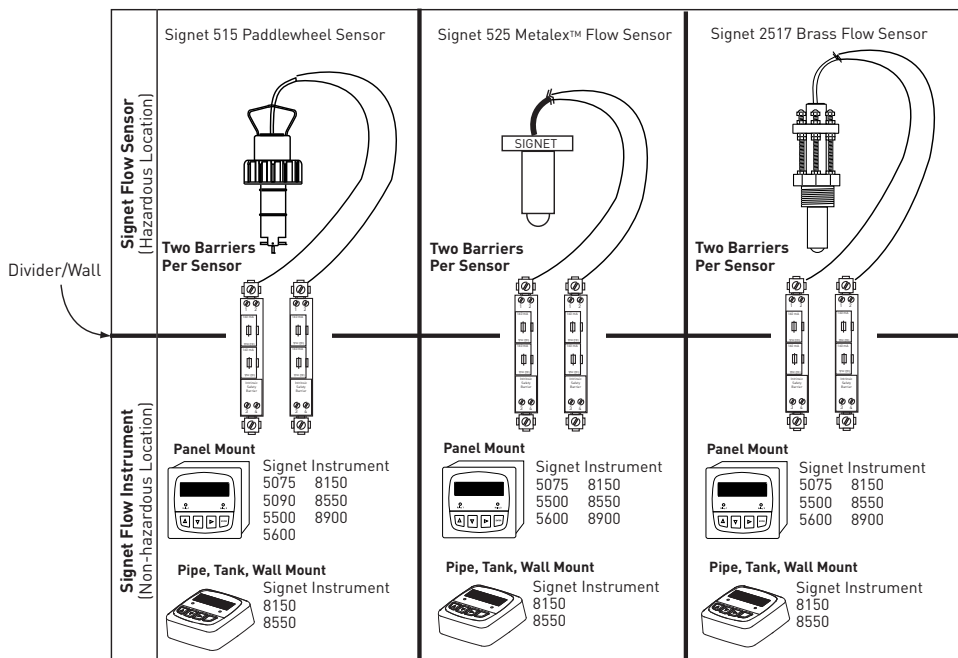
Both versions use a 1/2 inch wide housing which snaps directly to a 35mm DIN rail. Once mounted, an electrical connection is formed between the barrier and the rail. The rail serves as the intrinsic safety ground bus when connected to the

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

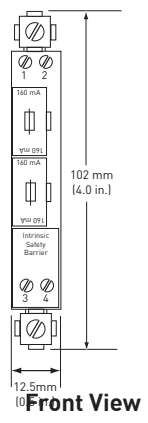
Each barrier also contains a replaceable 160mA fuse cartridge for each channel. Safety barriers are polarity sensitive devices and are available in +DC and AC voltage ratings.



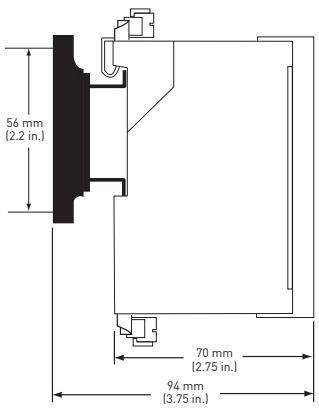
System Overview



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

Electrical

Rated Voltage:
6400-9001

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

6402-9001:

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

Environmental Rating

- 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: 100g (0.22 lbs)

Standards and Approvals

- CE, 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 and 2517 flow sensors (2 per sensor required)