Arc-Flash Detection
PGA-LS20 Series

Fiber Optic Sensor

Description

The PGA-LS20 series is an arc-detection, fiber-optic sensor that is designed to detect arcs along its entire length. This sensor is meant to be installed with the fiber along the back wall of switchboards to form the detection range across all compartments with just one sensor. The sensor is positioned to allow direct line of sight to all powered connections where an arc could develop. The sensor is capable of detecting the light from an arc flash from all angles. The detection radius is dependent on the arc power. The sensor is calibrated at the factory for 60 cm (24 in) of fiber in each monitored compartment. When using a fiber-optic sensor in compartments with less than 60 cm (24 in) of fiber, the sensitivity may have to be adjusted so that the sensor will detect arcs of 3 kA or more. This fiber-optic sensor and the arc-flash relay provide superior protection against the damaging effects of arc flashes and improve the lifespan of electrical equipment as well as the protection of personnel.

Features & Benefits

FEATURES	BENEFITS
Direct line of sight	Improves detection capability
Fiber-optic material	Rugged and flexible 5 cm bending radius
Length: 8 m active, 10 m total	Enhances usage

Applications

- For use with Littelfuse arc-flash relays

Specifications

Type	Fiber-optic sensor
Detection Zone	360° along fiber
Output	0–35 mA
Electrical Cable	Shielded 3-wire 20 AWG (0.5 mm^2) electrical cable
Factory Cable Length	8 m (26 ft) active;10 m (33 ft) total (2 m (7 ft) shielded) 2 x 10 m (33 ft) electrical cable
Max. Elec. Cable Length	50 m (164 ft)
Sensor Check	Built-in LED for visual feedback
Dimensions	Transmitter and Receiver: 32 x 56 x 19 mm (1.3 x 2.2 x 0.7 in)
Enclosure	IP 30

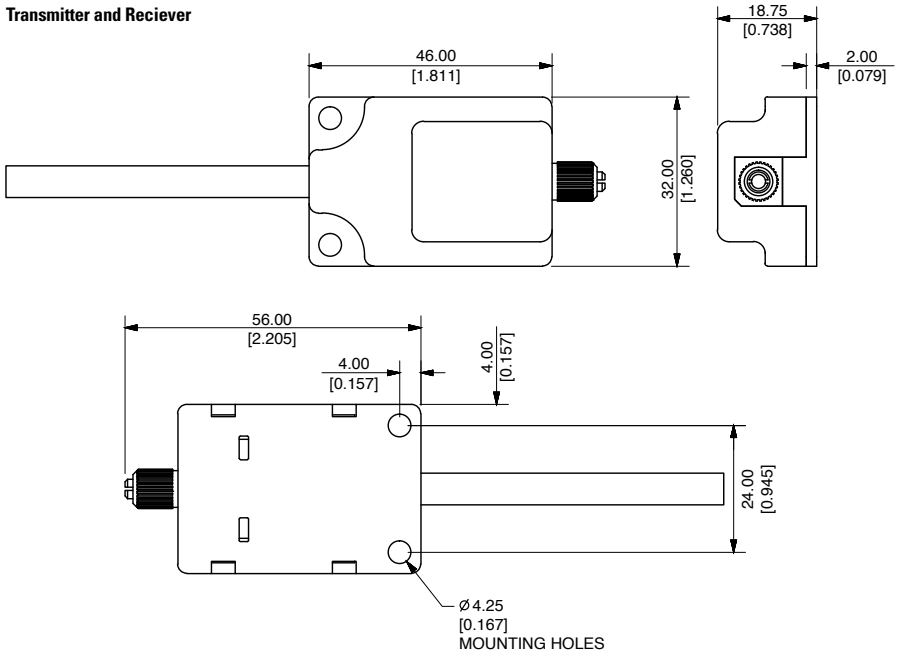
Revised: 06/08/2023

Ordering Information

ORDERING NUMBER	DESCRIPTION
PGA-LS20	Pre terminated fiber-optic sensor with transmitter, receiver, 2 x 10 m of cable, and connectors

Dimensions Millimeters (in)

Transmitter and Reciever



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