



www.TRIndustrial.com
T: 607-752-3250
E: Info@trcindustrial.com

P1 Arc Flash Relay System



The **P1 Arc Flash Relay System** is an externally installed control cabinet that can be installed at Medium-Voltage or Low-Voltage switchgear, switchboards, MCCs, control cabinets, or industrial machine locations and will reduce arc flash incident energy.

Using fiber optic sensors and current transformers (CTs), the **P1 Arc Flash Relay System** is capable of reducing arc flash incident energy to less than 1.2 cal/cm², even when connected to a generator*.

The **P1 Arc Flash Relay System** is a cost effective solution to protect employees working, testing, troubleshooting, or energizing electrical equipment. The **P1 Arc Flash Relay System** increases equipment safety & reliability by limiting the amount of fault current that can flow through your equipment.

Features:

- **Factory configured & tested for application**
- **Fast & easy installation**
- **Remote communications**
- **Current & light sensing**
- **Easy to view status indication**
- **Fast response time**

Benefits:

- **Arc flash incident energy can be reduced to less than 1.2 cal/cm²**
- **Connects to any electrical equipment**
- **Equipment has a short circuit current rating (SCCR) of 200 kA**
- **Connected equipment maintains UL Listing**
- **Selective coordination maintained**

Traditional circuit breakers and fuses **do not** provide protection of your employees or your equipment from arcing hazards.

“The P1 Arc Flash Relay System provides the most comprehensive solution to reducing incident energies associated with arc flash hazards” says Dan B., Engineering Director & Product Safety Officer.



* Actual arc flash energy must be calculated through an arc flash hazard analysis

Specifications

Input Voltage:	120 - 480V 1P 2W+G
Input Current:	5A 60Hz
Overcurrent Protection:	Internal
Short Circuit Current Rating:	200 kA (UL 508A)
Response Time:	< 1 ms
Fiber Optic Sensors:	
Sensor Types:	Point or Rope Sensors
Number of Sensors:	6 per Arc Flash Relay
Current Transducers:	50 - 5,000A:5A
Enclosure Rating:	NEMA 4
Programming Comms	USB Type A
Form 'C' Contacts:	1 - 250V 1A
Status:	
System ON:	Green LED
Reset:	Red LED
Tripped:	Red LED
External	Digital Inputs

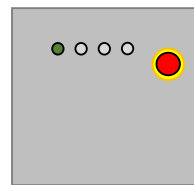
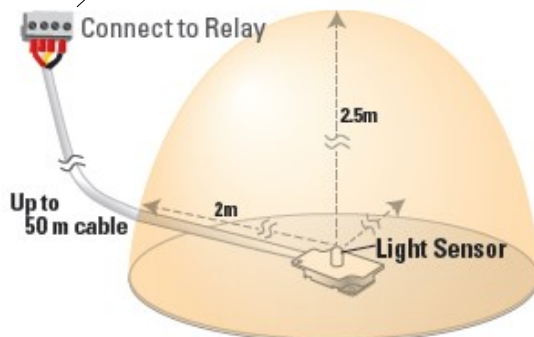
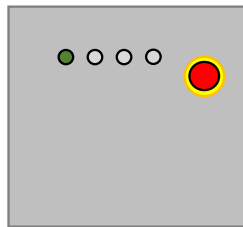
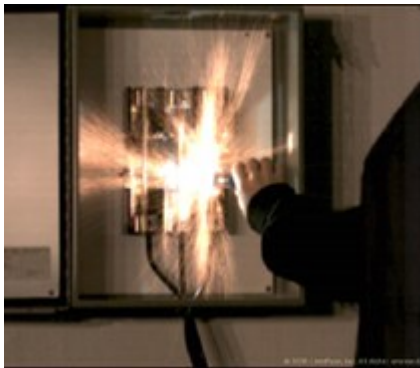
Externally connected ensures OEM warranties & Listings are maintained

P1 Arc Flash Relay System connects to shunt trip mechanism of equipment circuit breakers

P1 Arc Flash Relay System includes integral equipment self-diagnostic protocol to ensure system functionality

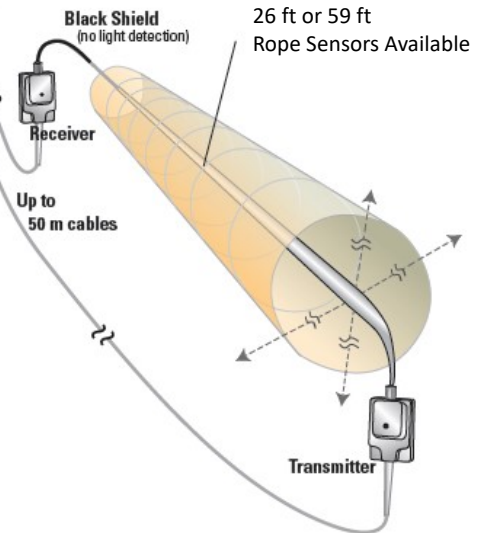
P1 Arc Flash Relay System can be installed:

- MV & LV Switchgear
- MV & LV Switchboards
- Panelboards
- LV Motor Control Centers (MCCs)
- Industrial Control Cabinets
- Industrial Machines
- Industrial Machinery
- Manufacturing equipment test systems



Connects to
*P1 Arc Flash
Relay System*

Fiber-Optic Sensor
360° Light Detection



TRC

(607) 752-3250 | INFO@TRCINDUSTRIAL.COM | WWW.TRINDUSTRIAL.COM