

# Proximity Sensors

972/973 Series


## 30 mm Diameter Relay Output Cylindrical Sensor 2-Wire DC, 2-Wire AC/DC Type



### FEATURES

- Integral SPDT 6 amp relay
- High output current capability – up to 6 amps
- N.O. and N.C. contacts in the same unit
- Isolated outputs
- Corrosion resistant one-piece 30 mm diameter plastic housing
- LED “target present” indicator
- 10 to 30 VDC or 20 to 132 VAC/VDC supply voltage
- Temperature stable from –40 to +70 °C
- Reverse polarity protection (DC)
- Sensing range up to 14 mm (.55 in.)
- Superior sealing – meets washdown criteria
- Circuit protected against industrial noise and transients

### ORDER GUIDE

Sensor Package Style	Sensing Range mm (in.)	Sensor Type	LED	Sw. Freq.	Standard Target* mm (in.)	Output Type	Catalog Listing
 68g (2.4 oz)	10 (.34) Shielded	2-wire DC	YES 360°	100 Hz	30 (1.18)	SPDT Relay	972AA4WP-C3R-L-030
	14 (.55) Unshielded	2-wire DC	YES 360°	100 Hz	30 (1.18)	SPDT Relay	972AB4WP-C3R-L-030
	14 (.55) Unshielded	2-wire AC/DC	YES 360°	100 Hz	30 (1.18)	SPDT Relay	973AB4WP-C12R-L-030

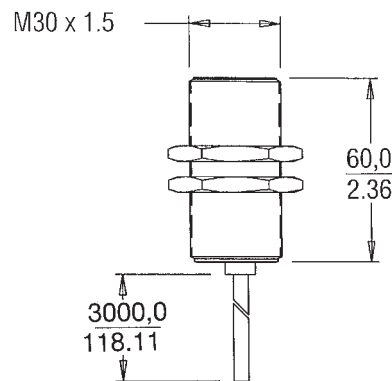
\* Square of mild steel, 1 mm (.04 in.) thick.

SPECIFICATIONS	2-wire DC	2-wire AC/DC
Supply Voltage	10-30 VDC	20-132 VAC/VDC
Load Current	See Relay Specifications	
Burden Current, Max.	< 50 mA	
Repeatability, Max.	3%	
Hysteresis	3-15%	
Temperature Range	–40 to +70 °C (–40 to +158 °F)	
Protection Class	NEMA 4, 6, 13	
Shock	10 G	
Vibration	10 G, 10 to 110 Hz	
Output Indicator	Red LED, 360°	
Housing Material	Thermoplastic polyester	
Cable Material	PVC 5 conductor, 18 gage	

### RELAY SPECIFICATIONS

Switched Power, Max.	180 W or 1800 VA
Switched Current, Max.	6 amps SPDT
Switched Voltage, Max.	28 VDC or 300 VAC
Relay Life	20,000,000 operations (no load), 100,000 operations (full load)

### MOUNTING DIMENSIONS (For reference only)



360° LED (CABLE END OF SENSOR)

### WIRING DIAGRAM

