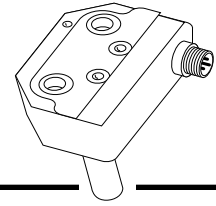


**Weld
Field
Immune**

Low-Profile Cylindicator® Sensors

**DC
AC/DC**



Proximity Sensors

- **Weld Field and Electrical Noise Immunity**
- **1500 PSI Continuous Pressure Rating**
- **Standard Latching Short Circuit Protection (SCP), Non-Latching Available in DC Models**
- **Predictable, Consistent Electrical Performance**
- **100% Tested and Burned-in**
- **Purpose-Designed Housings and Materials**

For over 25 years, the Cylindicator sensor has been the standard for industrial applications that require end-of-stroke indication on Hydraulic and Pneumatic Cylinders. Available in several styles, they are the standard for many OEM cylinder manufacturers. All Cylindicators are completely PLC compatible with many output configurations, including a UL Listed Intrinsically Safe version (see EE931 series for details).

| Probe Length | 3-Pin Micro Connector 2-W, 20-230V, AC/DC, N.O. | | 4-Pin Euro Connector 3-W, 10-30V, DC Sourcing (PNP), N.O. | |
|--------------|----------------------------------------------------|--------------------------|--------------------------------------------------------------|---------------|
| | Latching Short-Circuit Protection (SCP) | | Non-Latching SCP | |
| | 1.7mA Leakage Current | 4.5mA Leakage Current | 10µA Leakage Current | |
| | EE230- | EE260- | EE210- | EE210- |
| 0.915" | EE230-28820 | EE260-28820 | EE210-28844 | EE210-28804 |
| 0.950" | EE230-20120 | EE260-20120 | EE210-20144 | EE210-20104 |
| 1.025" | EE230-20420 | EE260-20420 | EE210-20444 | EE210-20404 |
| 1.130" | EE230-20320 | EE260-20320 | EE210-20344 | EE210-20304 |
| 1.250" | EE230-21320 | EE260-21320 | EE210-21344 | EE210-21304 |
| 1.350" | EE230-21720 | EE260-21720 | EE210-21744 | EE210-21704 |
| 2.062" | EE230-28720 | EE260-28720 | EE210-28744 | EE210-28704 |
| 2.775" | EE230-27420 | EE260-27420 | EE210-27444 | EE210-27404 |
| 2.875" | EE230-27820 | EE260-27820 | EE210-27844 | EE210-27804 |
| 3.775" | EE230-29020 | EE260-29020 | EE210-29044 | EE210-29004 |
| 4.560" | EE230-28620 | EE260-28620 | EE210-28644 | EE210-28604 |



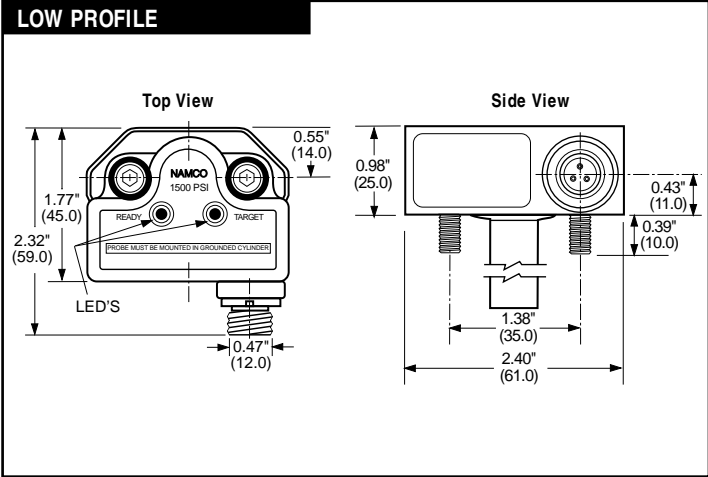
► Consult factory for Normally Closed, DC Sinking, and Cable model availability.

Common Sensor Characteristics

| CYLINDRATOR® SENSORS | | |
|--------------------------------------|-------------------------------|---------------------------------|
| | AC/DC | DC |
| Nominal Sensing Range (±10%) | 0.080" | |
| Current Consumption | 1.7 or 4.5mA | 10µA |
| Voltage Drop | ≈10 VAC | 2.0V@100mA |
| Temperature Drift (Max.) | ±10% | |
| Short Circuit Protection | yes | |
| Reverse Polarity Protected | yes | |
| Ambient Temperature Range | -4°F to +158°F | |
| Maximum Switching Frequency | 16Hz | |
| Hysteresis | 3-10% | |
| Repeatability | <±1.25% | |
| Designed to meet NEMA Enclosure Type | 4, 6, 12 & 13 | |
| Load Current | 5mA to 500mA | 200mA max. |
| LED Indicator | red = power green = target | green = power amber = target |
| Shipping Weight | 12 oz. | |

See Cylindicator® Sensor Design Guide Section for details.

Dimensional Drawings



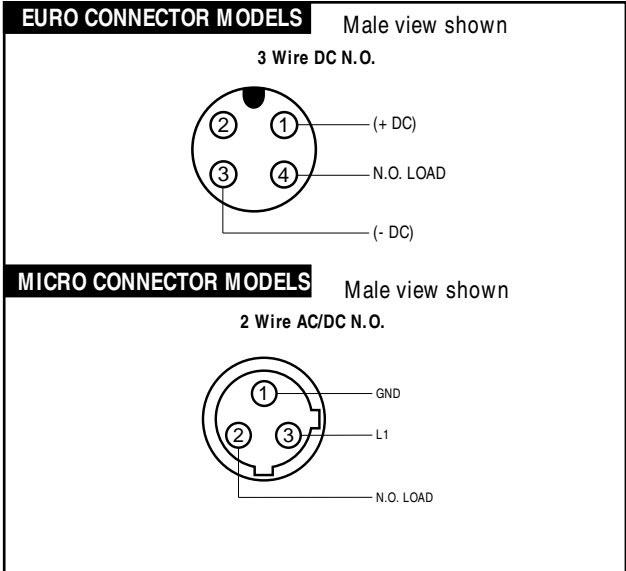
Proximity Sensors

LED Functions

| | 10-30V DC | | 20-230V AC/DC | |
|----------------------------|---------------|-------|---------------|-------|
| | Green | Amber | Red | Green |
| Power Off | Off | Off | Off | Off |
| Power On Load De-energized | On | Off | On | Off |
| Power On Load Energized | On | On | Off | On |
| * SCP Mode Activated | Both Flashing | | Both Flashing | |

* Short Circuit Protection: If the sensor is shorted, the sensor's Short Circuit Protection (SCP) will be activated. When this occurs, both LEDs will flash and the sensor will limit current flow to about 2.0mA.

Circuit Drawings



2013 West Meeting Street • Lancaster, SC 29720
 1-803-286-8491 • FAX: 1-800-678-6263
 www.namcocontrols.com

For technical assistance, call 1-800-NAMTECH