

872C DC Pico Style 6.5 & 8 mm

Features

- Up to three times the sensing range of standard range inductive proximity sensors
- 3- or 4-pin connection for pico and micro connectors
- 10...30V DC
- Normally open output
- IP67 enclosure rating
- Reverse polarity, short circuit, overload, false pulse, and transient noise protection
- cULus Listed and CE Marked for all applicable directives

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Special mounting and installation considerations may be necessary due to the long-range sensing capabilities of these products. The Introduction and Application section of the catalog should be used as a guideline. Please refer to pages 2-12 and 2-14.

Specifications

| ≤200 mA |
|---|
| ≤0.1 mA |
| 1030V DC |
| ≤2V |
| ≤5% |
| 10% typical |
| Incorporated |
| cULus Listed and CE Marked for all applicable directives |
| NEMA 1, 2, 3, 4, 6P, 12, 13, IP67 (IEC 529) Chrome-plated brass barrel, plastic face (PBT) |
| Quick-disconnect: 4-pin micro style 3-pin pico style |
| Amber: output energized, 360° visibility |
| -25+70 ° (-13+158 °) |
| 30 g, 11 ms |
| 55 Hz, 1 mm amplitude, 3 planes |
| |

Correction Factors

| Target Material | Correction Factors | | |
|-----------------|--------------------|--|--|
| Steel | 1.0 | | |
| Stainless Steel | 0.60.8 | | |
| Brass | 0.30.6 | | |
| Aluminum | 0.30.5 | | |
| Copper | 0.20.5 | | |
| | | | |

QD Cordsets and Accessories

| Description | Page No. | | |
|-----------------------------|-------------|--|--|
| Other Cordsets Available | 8-2 | | |
| Terminal Chambers | 8-2 | | |
| Mounting Brackets | 2-2102-214 | | |
| End Caps | 2-220 | | |
| Mounting Nuts | 2-221 2-222 | | |





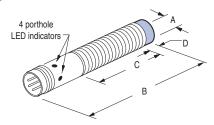
872C WorldProxTM Long Range Sensing 3-Wire DC Plastic Face/ Threaded Chrome-Plated Brass Barrel

Product Selection

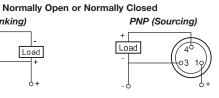
| | Nominal Sensing | | Ou | tput | Switching Frequency | Cat. I | No. |
|----------------------|---|----------|---------------|------|---------------------|-----------------|---------------|
| Barrel Diameter [mm] | Distance [mm (in.)] | Shielded | Configuration | | (Hz) | Micro QD Style | Pico QD Style |
| 6.5 | 0 (0 10) | Yes | N.O. | NPN | 1000 | 872C-M3NN7-D4 | 872C-M3NN7-P3 |
| 0.5 | 3 (0.12) | | | PNP | | 872C-M3NP7-D4 | 872C-M3NP7-P3 |
| 8 | 6 (0.23) | No | N.O. | NPN | 500 | 872C-N6NN8-D4 | 872C-N6NN8-P3 |
| 0 | 6 (0.23) | | | PNP | | 872C-N6NP8-D4 | 872C-N6NP8-P3 |
| | 6 (0.23) | Yes | N.O. | NPN | - 800 | 872C-M6NN12-D4 | _ |
| 12 | | | | PNP | | 872C-M6NP12-D4 | _ |
| 12 | 10 (0.39) | No | N.O. | NPN | 400 | 872C-N10NN12-D4 | _ |
| | | | | PNP | | 872C-N10NP12-D4 | _ |
| | 12 (0.47) | Yes | N.O. | NPN | 500 | 872C-M12NN18-D4 | _ |
| 18 | | | | PNP | | 872C-M12NP18-D4 | _ |
| 10 | 20 (0.79) | No | N.O. | NPN | ⊣ 200 ŀ | 872C-N20NN18-D4 | _ |
| | | | | PNP | | 872C-N20NP18-D4 | _ |
| | 22 (0.86) | Yes | N.O. | NPN | 200 | 872C-M22NN30-D4 | _ |
| 30 | | | | PNP | | 872C-M22NP30-D4 | _ |
| 30 | 40 (1.57) | No | N.O. | NPN | 100 | 872C-N40NN30-D4 | _ |
| | | | | PNP | 100 | 872C-N40NP30-D4 | |
| Recommended standar | Recommended standard QD cordset (-6F = 1.8 m (6 ft), -2 = 2 m (6.5 ft)) | | | | | | |

Approximate Dimensions—mm (in)

Pico QD Style

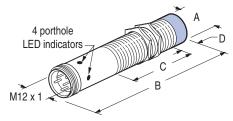


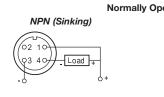




| | Smooth Diameter | | mm (inches) | | | | |
|-------------|-----------------|----------|-------------|-----------|-------------|----------|--|
| Thread Size | [mm] | Shielded | Α | B (max) | C (min) | D (max) | |
| _ | 6.5 | Y | 6.5 (0.26) | 60 (2.36) | _ | _ | |
| M8 x 1 | _ | N | 8.0 (0.31) | 60 (2.36) | 41.5 (1.63) | 4 (0.15) | |

Micro QD Style





| en | PNP (Sourcing) | |
|-----|----------------|---|
| - 6 | 02 10 03 40 | + |

| | Smooth Diameter | | | mm (inches) | | | |
|-------------|-----------------|----------|------------|-------------|-------------|------------|--|
| Thread Size | [mm] | Shielded | Α | B (max) | C (min) | D (max) | |
| _ | 6.5 | Y | 6.5 (0.26) | 66 (2.59) | _ | _ | |
| M8 x 1 | _ | N | 8 (0.31) | 66 (2.59) | 40 (1.57) | 4 (0.15) | |
| M12 x 1 | _ | Υ | 12 (0.47) | 60 (2.36) | 40 (1.57) | _ | |
| IVI I Z X I | | N | | | 35.3 (1.38) | 5.7 (0.22) | |
| M18 x 1 | | Y | 18 (0.71) | 63.5 (2.5) | 42 (1.65) | _ | |
| IVIIOXI | _ | N | | | 32 (1.25) | 10 (0.39) | |
| M30 X 1.5 | | Υ | 30 (1.18) | 73.5 (2.89) | 52 (2.04) | _ | |
| 1VI3U X 1.5 | _ | N | | | 42 (1.65) | 10 (0.39) | |



