

T30 Sensors – dc-Voltage Series

Installation Guide

more sensors, more solutions

Self-contained, dc-operated sensors

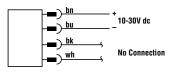




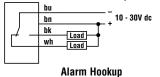
Cabled Emitters



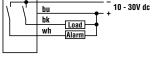
QD Emitters



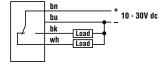
NPN (Sinking) Outputs Standard Hookup







PNP (Sourcing) Outputs Standard Hookup



Alarm Hookup bu to a state of the state of

| Sensing Mode | | Range | LED | Output | Model* |
|--------------|-----------------------------------|------------------------|--------------------------|--------|-------------|
| | Opposed | 60 m (200') | Infrared 950 nm | - | T306E |
| | | | | NPN | T30SN6R |
| | | | | PNP | T30SP6R |
| P 2 | Polarized Retro- reflective | 6 m (20') | Visible Red 680 nm | NPN | T30SN6LP |
| | | | | PNP | T30SP6LP |
| | Fixed Field | 200 mm (8") cutoff | Infrared 880 nm | NPN | T30SN6FF200 |
| | | | | PNP | T30SP6FF200 |
| | | 400 mm (16") cutoff | | NPN | T30SN6FF400 |
| | | | | PNP | T30SP6FF400 |
| | | 600 mm (24") cutoff | | NPN | T30SN6FF600 |
| | | | | PNP | T30SP6FF600 |

* Standard 2 m (6.5') cable models are listed.

Cabled Models

45.0 mm

(1.77")

ø 40.0 mm

Jam Nut

(Supplied)

M30 x 1.5 Thread

(1.57")

ø 15 mm (0.59")

• 9 m (30') cable: add suffix "W/30" (e.g., T306E W/30).

• 4-pin Euro-style QD models: add suffix "Q" (e.g., T306EQ). A model with a QD connector requires a mating cable.



51.5 mm (2.03")



QD Models

NOTE: QD hookups are functionally identical.



| Repeatability Opposed mode: 375 μs Polarized Retro and Fixed-Field: 750 μs Repeatability and response are independent of signal strength. Indicators Two LEDs (Green and Yellow) Green ON steady: power to sensor is ON Green flashing: output is overloaded Yellow ON steady: N.O. output is conducting Yellow flashing: excess gain marginal (1 to 1.5x) in light condition Construction PBT polyester housing; polycarbonate (opposed mode) or acrylic lens Environmental Rating Leakproof design rated NEMA 6P, DIN 40050 (IP69K) Connections 2 m (6.5') or 9 m (30') attached cable, or 4-pin Euro-style quick-disconnect fitting Operating Conditions Temperature: -40° to +70°C (-40° to +158°F) Maximum relative humidity: 90% at 50°C (non-condensing) Vibration and Mechanical Shock All models meet Mil. Std. 202F requirements. Method 201A (Vibration; frequency 10 to 60 Hz, max., double amplitude 0.06" acceleration 10G). Method 213B conditions H&I (Shock: 75G with unit operating; 100G for non-operation) Certifications |
|---|
| |

Quick-Disconnect (QD) Cables

| Style | Model | Length | Dimensions | Pinout | |
|------------------------------------|--|--------------------------------------|---|------------|--|
| 4-pin Euro-style Straight | MQDC-406 MQDC-415 MQDC-430 | 2 m (6.5') 5 m (15') 9 m (30') | 44 mm max. (1.7") | Brown Wire | |
| 4-pin Euro-style Right-angle | MQDC-406RA MQDC-415RA MQDC-430RA | 2 m (6.5') 5 m (15') 9 m (30') | 38 mm max. (1.5°) 38 mm max. (1.5°) 38 mm max. (1.5°) 4 15 mm (0.6°) | | |