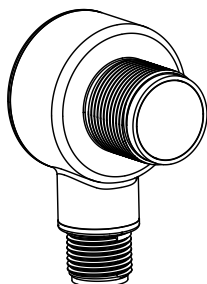


T18-2 Epoxy Encapsulated Right-Angle Sensor



Datasheet

Next Generation of Self-Contained dc-Operated Sensors



- Complete family of sensors, all housed in the compact right angle 18 mm threaded housing designed for long service life in wet environments
- ECO-Lab certified chemically robust epoxy encapsulated plastic sensors for wash-down applications typically found in the food and beverage industry
- Epoxy encapsulation of electronics provides a redundant seal in addition to plastic ultrasonic weld joints for maximum reliability in wet thermal shock environments
- Permanent laser etched product marking will not wear off after repeated cleaning cycles
- Food grade plastic materials used for all exposed surfaces
- Hygienic shape for easier cleaning of the sensor
- Powerful and bright visible red emitter beam for easy alignment and set-up
- Highly visible output and dual-function power and stability indicators
- Advanced ASIC technology makes sensor resistant to optical and electrical noise source
- Wide operating temperature range: -40 °C to +70 °C (-40 °F to +158 °F)



WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel protection. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

Models

Emitter/Receiver Models			
Model		Range	Output
T18-2NAEL-Q8	Emitter	25 m (82 ft)	None
T18-2NAEJ-Q8		25 m (82 ft) with beam inhibit	
T18-2NAES-Q8		25 m (82 ft) with adjustment	
T18-2VNRL-Q8	Receiver	25 m (82 ft)	Complementary NPN
T18-2VPRL-Q8			Complementary PNP
T18-2VNRS-Q8		25 m (82 ft) with adjustment	Complementary NPN
T18-2VPRS-Q8			Complementary PNP

Polarized Retroreflective Models		
Model	Range	Output
T18-2VNLP-Q8	6 m (19.7 ft) with BRT-84 reflector	Complementary NPN
T18-2VPLP-Q8		Complementary PNP
T18-2VNLPC-Q8	6 m (19.7 ft) with BRT-84 reflector, with adjustment	Complementary NPN
T18-2VPLPC-Q8		Complementary PNP

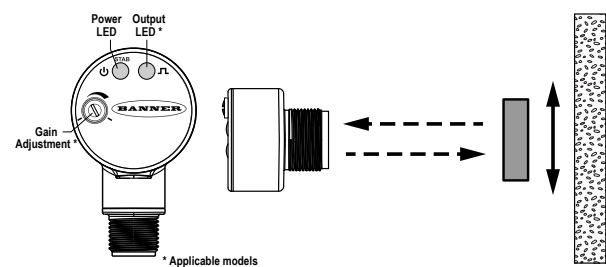
Diffuse Models		
Model	Range	Output
T18-2VNDL-Q8	750 mm (29.5 in) with adjustment	Complementary NPN
T18-2VPDL-Q8		Complementary PNP



Diffuse Models		
Model	Range	Output
T18-2VNDS-Q8	300 mm (11.8 in) with adjustment	Complementary NPN
T18-2VPDS-Q8		Complementary PNP

Fixed Field Models			
Models with Red Emitters	Models with Infrared Emitters	Range	Output
T18-2VNFF30-Q8	T18-2VNFF30IR-Q8	30 mm	Complementary NPN
T18-2VPFF30-Q8	T18-2VPFF30IR-Q8		Complementary PNP
T18-2VNFF50-Q8	T18-2VNFF50IR-Q8	50 mm	Complementary NPN
T18-2VPFF50-Q8	T18-2VPFF50IR-Q8		Complementary PNP
T18-2VNFF75-Q8	T18-2VNFF75IR-Q8	75 mm	Complementary NPN
T18-2VPFF75-Q8	T18-2VPFF75IR-Q8		Complementary PNP
T18-2VNFF100-Q8	T18-2VNFF100IR-Q8	100 mm	Complementary NPN
T18-2VPFF100-Q8	T18-2VPFF100IR-Q8		Complementary PNP
T18-2VNFF150-Q8	T18-2VNFF150IR-Q8	150 mm	Complementary NPN
T18-2VPFF150-Q8	T18-2VPFF150IR-Q8		Complementary PNP
T18-2VNFF200-Q8	T18-2VNFF200IR-Q8	200 mm	Complementary NPN
T18-2VPFF200-Q8	T18-2VPFF200IR-Q8		Complementary PNP

Installing the T18-2 Epoxy Encapsulated Right-Angle Sensor



To install the T18-2 Epoxy Encapsulated Right-Angle Sensor:

- 1. Align the sensor as required for the application. For the most sensitive object detection, align the sensor so that the objects move across the sensor's axis.
- 2. Secure the sensor to a bracket.
- 3. Wire sensor as shown in the wiring diagrams.
- 4. Adjust the gain adjuster (sensitivity pot) if necessary.

Wiring Diagrams

