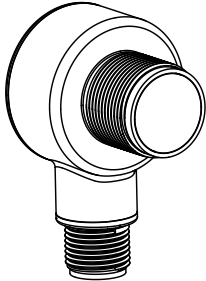


# T18-2 Epoxy Encapsulated Right-Angle Sensor



## 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

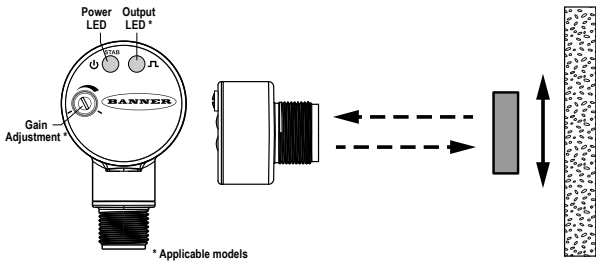
Diffuse Models		
Model	Range	Output
T18-2VNDL-Q8	750 mm (29.5 in) with adjustment	Complementary NPN
T18-2VPDL-Q8		Complementary PNP



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

