



T8

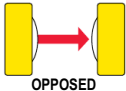
Self-Contained, Right-Angle Barrel-Mount Sensors

Compact sensor provides reliable sensing without adjustments.

- Powerful optics
- Short-range background suppression
- Highly visible red sensing beam for easy alignment
- Easily replaces range-limited 8 mm inductive proximity sensors
- Cordsets and brackets see page 159

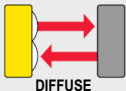
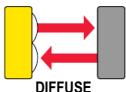
Opposed T8, 10-30 V DC

➔ Visible Red LED


Sensing Mode	Range	Connection	Output Type	Models NPN	Models PNP
	2 m	2 m	—	T86EV Emitter	
		3-Pin Pico Pigtail QD		T86EVQ Emitter	
		2 m	LO	T8AN6R	T8AP6R
		3-Pin Pico Pigtail QD		T8AN6RQ	T8AP6RQ
		2 m	DO	T8RN6R	T8RP6R
		3-Pin Pico Pigtail QD		T8RN6RQ	T8RP6RQ

Diffuse T8, 10-30 V DC

➔ Visible Red LED








Sensing Mode	Range	Connection	Output Type	Models NPN	Models PNP
	50 mm	2 m	LO	T8AN6D50	T8AP6D50
		3-Pin Pico Pigtail QD		T8AN6D50Q	T8AP6D50Q
		2 m	DO	T8RN6D50	T8RP6D50
		3-Pin Pico Pigtail QD		T8RN6D50Q	T8RP6D50Q
	100 mm	2 m	LO	T8AN6D100	T8AP6D100
		3-Pin Pico Pigtail QD		T8AN6D100Q	T8AP6D100Q
		2 m	DO	T8RN6D100	T8RP6D100
		3-Pin Pico Pigtail QD		T8RN6D100Q	T8RP6D100Q


For more specifications see page 160.

 **Connection options:** A model with a QD requires a mating cordset (see page 159.)



For 9 m cable, add suffix **W/30** to the 2 m model number (example, **T8AN6D50 W/30**).

Cordsets

Pico QD			
See page 902			
Threaded 3-Pin			
Length	Straight		Right-Angle
2.00 m		PKG3M-2	 PKW3M-2
5.00 m		PKG3M-5	—
7.00 m		PKG3M-7	—
9.00 m		PKG3M-9	 PKW3M-9
10.0 m		PKG3M-10	—


 Additional cordset information available.
See page 902.

Brackets

T8	
See page 858	
SMB8MM	
	
	Additional brackets and information available. See page 846.

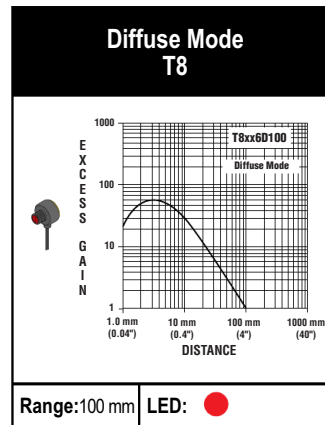
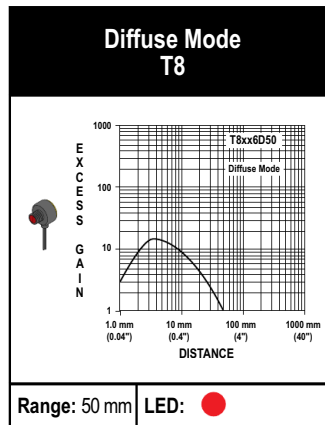
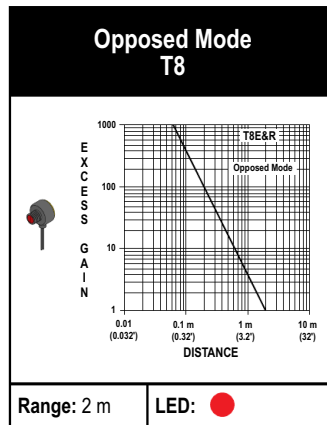


T8 Specifications

Supply Voltage and Current	10 to 30 V dc (10% max. ripple) at less than 25 mA (exclusive of load)
Supply Protection Circuitry	Protected against reverse polarity and transient voltages
Output Configuration	Solid-state switch NPN (current sinking) or PNP (current sourcing), depending on model. Light Operate (LO) or Dark Operate (DO), depending on model
Output Rating	50 mA max. OFF-state leakage current: less than 1 μ A at 24 V dc ON-state saturation voltage: less than 0.25 V at 10 mA dc; less than 0.5 V at 50 mA dc
Output Protection Circuitry	Protected against false pulse on power-up and continuous overload or short circuit of outputs Overload trip point \geq 100 mA
Output Response Time	1 millisecond ON; 0.5 milliseconds OFF
Delay at Power-up	Maximum 100 milliseconds (150 milliseconds for Diffuse); output does not conduct during this time
Repeatability	Opposed: 100 microseconds Diffuse: 160 microseconds
Indicators	Opposed: Receiver has Green and Red LED Emitter has one Green LED Solid Green: power ON Flashing green: output overloaded Solid Red: light sensed Yellow flashing: marginal excess gain Diffuse: Red: light is sensed
Construction	Reinforced polycarbonate/ABS alloy housing, acrylic window with 8 mm ABS nut
Environmental Rating	IEC IP67; NEMA 6
Connections	2 m or 9 m attached cable, or 150 mm pigtail with 3-pin Pico-style quick-disconnect fitting. QD cordsets are ordered separately. See page 159.
Operating Conditions	Temperature: -20° to +55° C Relative humidity: 80% at 50° C (non-condensing)
Vibration and Mechanical Shock	Vibration: All models meet IEC 60068-2-6, IEC 60947-5-2, UL491 Section 40, MIL-STD-202F Method 201A; 10 to 60 Hz, 0.5 mm peak to peak Shock: All models meet IEC 60068-2-27, IEC 60947-5-2; 30g peak acceleration, 11 millisecond pulse duration, half-sine wave pulse shape
Certifications	

Excess Gain Curves (Diffuse mode performance based on 90% reflectance white test card)

● = Visible Red LED



Beam Patterns (Diffuse mode performance based on 90% reflectance white test card)

● = Visible Red LED

