

Adjustable Sensing Distance of up to 6 m (20')



#### **Features**

- Powerful, collimated infrared light source and special lensing allows reliable long-range detection of even the darkest objects
- Compact, rugged, low cost self-contained sensors in metal die cast housings
- Leakproof IP67 (NEMA 6) construction for reliable sensing in harsh environments
- · Outstanding electrical noise immunity
- · Dual LED system indicates sensor performance
- · Choice of integral cable or quick disconnect connector





Infrared, 880 nm

## QMT42 Long-Range Diffuse Mode

	_	0.11	Supply	Output	Excess Gain	Beam Pattern
Models	Range	Cable	Voltage	Туре	Performance based on 90% reflectance white test card	
QMT42VN6DX QMT42VN6DXQ	10 mm (0.4") to 6 m (20')	2 m (6.5') 4-pin Euro QD	10-30V dc	NPN	E	30 mm
QMT42VP6DX QMT42VP6DXQ		2 m (6.5') 4-pin Euro QD		PNP		

#### WARNING . . . Not To Be Used for Personnel Protection

Never use these products as sensing devices for personnel protection. Doing so could lead to serious injury or death.

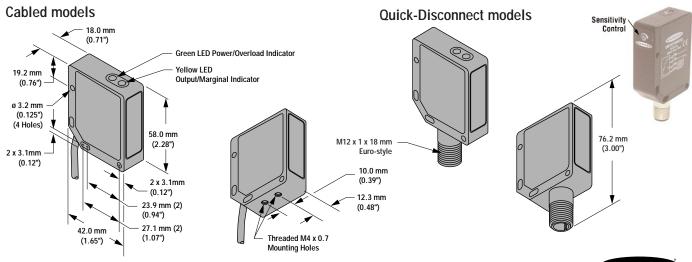
These sensors do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. Consult your current Banner Safety Products catalog for safety products which meet OSHA, ANSI and IEC standards for personnel protection.

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## **QMT42DX Specifications**

Sensing Beam	Infrared, 880 nm				
Supply Voltage and Current	10 to 30V dc (10% maximum ripple) at less than 40 milliamps				
Supply Protection Circuitry	Protected against reverse polarity and transient voltages				
Output Configuration	SPDT (complementary) solid-state dc switch; Choose NPN (current sinking) or PNP (current sourcing) models. Light operate: N.O. output conducts when the sensor sees its own modulated light				
	Dark operate: N.C. output conducts when the sensor sees dark				
Output Rating	100 mA maximum (each output)  Off-state leakage current: <5 microamps at 30V dc;  On-state saturation voltage: <1V at 10 mA dc; <1.5V at 100 mA dc				
Output Protection Circuitry	Protected against false pulse on power-up and continuous overload or short-circuit of outputs Overload trip point ≥130mA, typical, at 20°C				
Output Response Time	1 millisecond on and off NOTE: 100 millisecond delay on power-up; outputs are non-conducting during this time				
Repeatability of Response	250 microseconds				
Sensing Hysteresis	Less than 20% of set sensing distance				
Adjustments	4-turn slotted Gain (sensitivity) adjustment potentiometer (clutched at both ends of travel)				
Indicators	Two LEDs: Green and Yellow GREEN glowing steadily = power to sensor is ON GREEN flashing = output is overloaded YELLOW glowing steadily = light is sensed; normally open output ON YELLOW flashing = marginal excess gain (1-1.5x) in light condition				
Construction	Housings are die-cast zinc alloy with black acrylic polyurethane finish; lenses are acrylic				
Environmental Rating	IP67; NEMA 6				
Connections	2 m (6.5') or 9 m (30') attached cable, or 4-pin Euro-style quick-disconnect fitting; Cables for QD models are purchased separately				
Operating Temperature	-20° to +55°C (-4° to +131°F); Maximum relative humidity 90% at 50°C (non-condensing)				
Certifications Approvals in process					

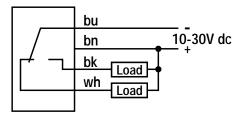
## **QMT42DX Dimensions**



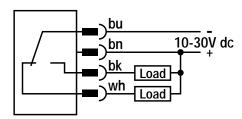
## **QMT42DX Hookups**

### Sensors with NPN (Sinking) Outputs

#### **Cabled Models**

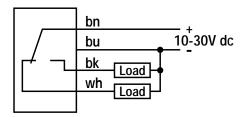


**Quick Disconnect Models** 

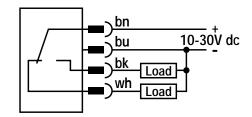


### Sensors with PNP (Sourcing) Outputs

#### **Cabled Models**



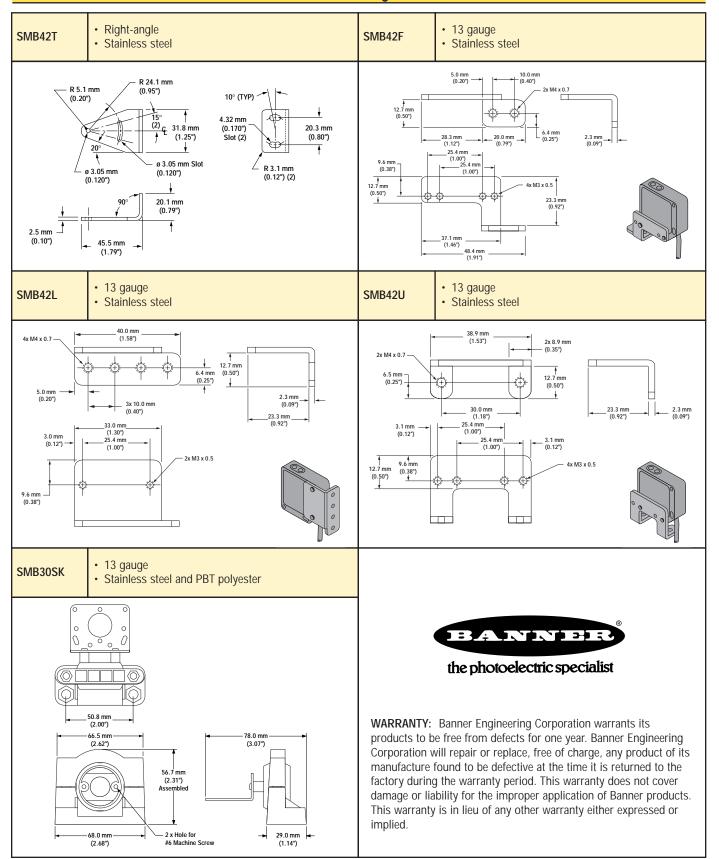
**Quick Disconnect Models** 



## Quick-Disconnect (QD) Cables

The following is the selection of cables available for the QMT42 QD models								
Style	Model	Length For use with		Dimensions	Pinout			
4-pin Euro-Style straight	MQDC-406 MQDC-415 MQDC-430	2 m (6.5') 5 m (15') 9 m (30')		0.5 mm (0.6°) 44 mm max. M12x1.	Pin #2			
4-pin Euro-Style right-angle	MQDC-406RA MQDC-415RA MQDC-430RA	2 m (6.5') 5 m (15') 9 m (30')	All QMT42 sensors with quick-disconnect fitting	38 mm max. (1.5°) 38 mm max. (1.5°) 412 x 1 415 mm (0.6°)	Pin #1 Brown Wire Pin #3 Blue Wire Black Wire			

### **QMT42 Mounting Brackets**



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