

Convergent, Diffuse and Retro-reflective Laser Sensor



Retroreflective and Diffuse models

The BL-20 series is offered in both retroreflective and diffuse models. Sensing distance for the diffuse model is 12 inches, convergent models 4, 6, and 8 inches, retroreflective model up to 160 ft.

Potentiometer adjustment

A single turn potentiometer (General Purpose - Slim Body and Background Suppression) or an eight turn potentiometer (General Purpose - M18) is built-in to make adjustments to the sensitivity.

Quick connect standard

An 8mm connector is standard with the sensor, there is also an optional 12mm connector (pigtail) offered.



Small object detection

A small object can reliably be detected at long range due to the narrow projected beam size.

NPN and PNP outputs

Both NPN and PNP outputs are standard on the unit.

Selectable output operation

The output operation of the sensor can be selected to operate as either Light-On or Dark-On via a switch.

Class II laser product

The BL-20 series uses a Class II laser as the light source.



POB 1778 Greer, SC 29652
414 West Poinsett Street Greer, SC 29650
mtrask@bellsouth.net

Ph: 864-848-3993

www.traskinstrumentation.com

Fax: 864-848-9569

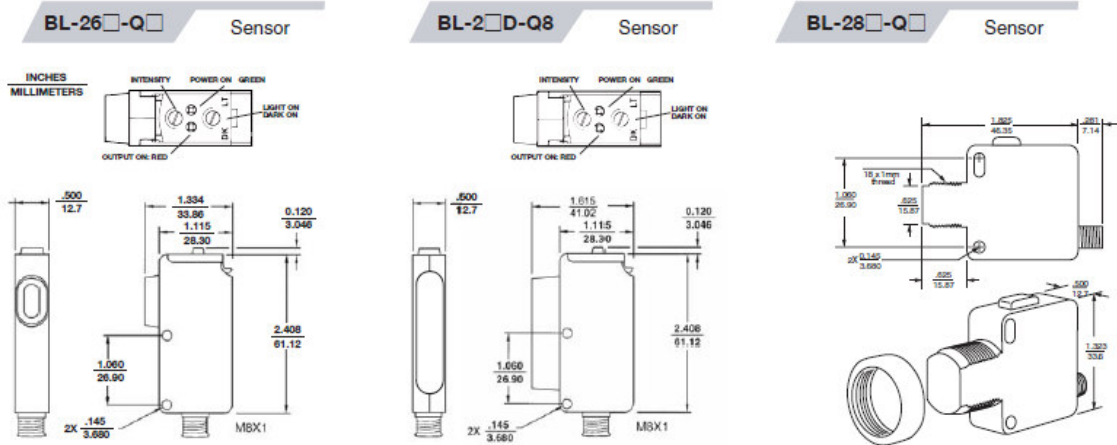
Specifications

| Type | | General Purpose - Slim Body | | General Purpose - M18 Body | | Background Suppression | | |
|--------------------------|---------------|---|------------------------------|----------------------------|-------------------------------|----------------------------|----------------------------|-----------------------------|
| | | Diffuse/Retro | Polarized Retro | Diffuse/Retro | Polarized Retro | Convergent Beam | | |
| Model Number | M8 - QD | BL-26D-Q8 | BL-26R-Q8 | BL-28D-Q8 | BL-28R-Q8 | BL-22D-Q8 | BL-23D-Q8 | BL-24D-Q8 |
| | M12 - Pigtail | BL-26D-Q12 | BL-26R-Q12 | BL-28D-Q12 | BL-28R-Q12 | --- | --- | --- |
| Sensing Range | Diffuse | 305mm (12") | --- | 305mm (12") | --- | 60 ~ 100mm (2.4 ~ 4.0") | 86 ~ 150mm (3.4 ~ 6.0") | 107 ~ 203mm (4.2 ~ 8.0") |
| | Retro | 48.8M (160') | 7.3M (24') | 48.8M (160') | 7.3M (24') | --- | --- | --- |
| Supply Voltage | | 10 ~ 30 VDC | | | | | | |
| Current Consumption | | 30 mA | | | | | | |
| Sensing Output | | NPN and PNP - Open Collector Transistor | | | | | | |
| Output Rating | | 200 mA max. | | | | | | |
| Output Operation | | Selectable Light-On / Dark-On operation by switch | | | | | | |
| Short Circuit Protection | | Incorporated | | | | | | |
| Response Time | | Less than 2 msec. | | | | | | |
| Operation Indicator | | Power (Green) and Output (Red) | | | | | | |
| Sensitivity Adjuster | | Single turn intensity control | Eight turn intensity control | | Single turn intensity control | | | |
| Environmental Protection | | NEMA 6 | | | | | | |
| Ambient Temperature | | 0 to 40°C | | | | | | |
| Emitting Element | | Class II laser product | | | | | | |
| Emitted Beam | | 670 nm visible red laser diode | | | | | | |
| Housing | | ABS housing, acrylic lens, polycarbonate cover | | | | | | |
| Ratings | | CE | | | | | | |
| Accessories Included | | Sensor mounting bracket and reflector | | | Sensor mounting bracket | | | |

Note: The connecting cable is not included with the sensor, please order separately.

| Type | Cable Part Number | Length | Connector |
|------|-------------------|---------|--------------|
| Q8 | M8-FS4-PUR-2M | 2 Meter | M8 - 4 wire |
| | M8-FS4-PUR-5M | 5 Meter | |
| Q12 | M12-FS4-PUR-2M | 2 Meter | M12 - 4 wire |
| | M12-FS4-PUR-5M | 5 Meter | |

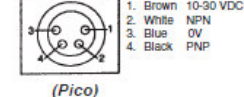
DIMENSIONS (Unit: mm)



Q12 Cable Wiring Diagram



Q8 Connector Wiring Diagram



POB 1778 Greer, SC 29652
 414 West Poinsett Street Greer, SC 29650
 mtrask@bellsouth.net

Ph: 864-848-3993

www.traskinstrumentation.com

Fax: 864-848-9569