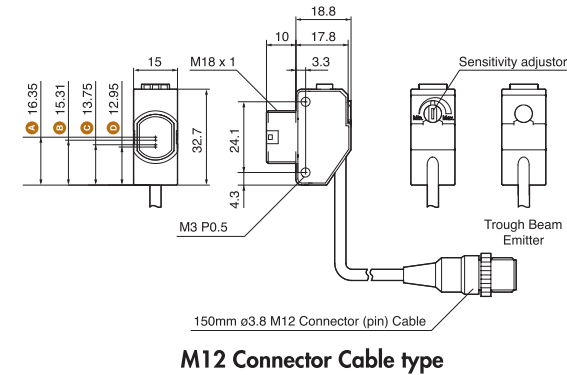
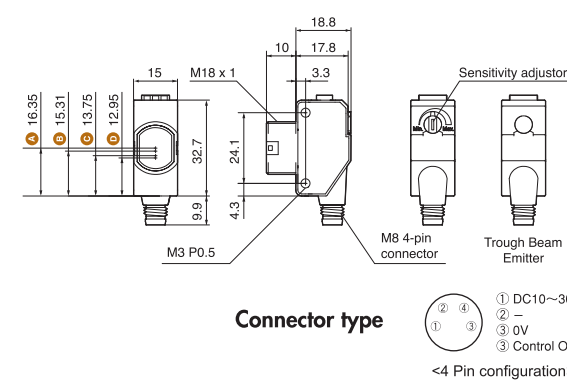
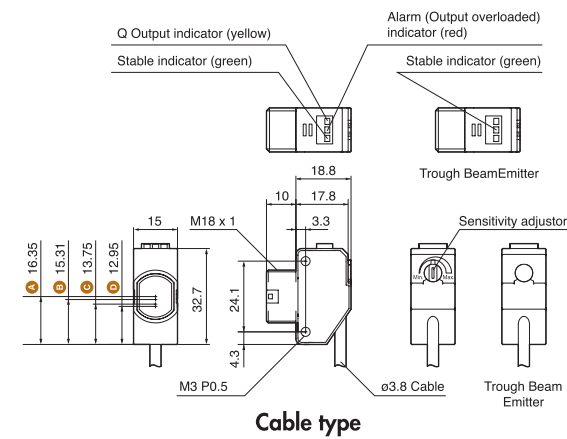


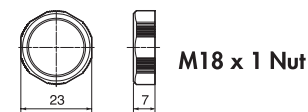
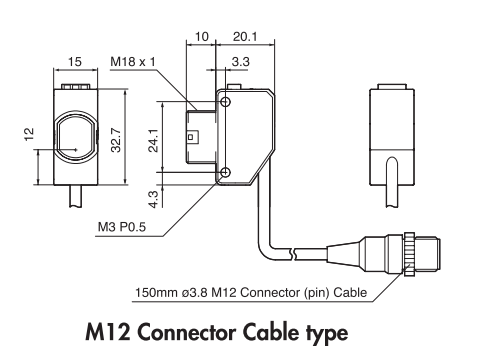
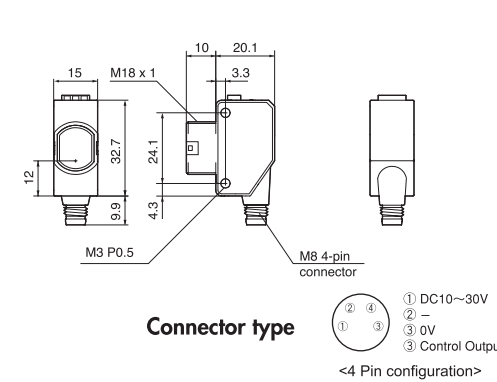
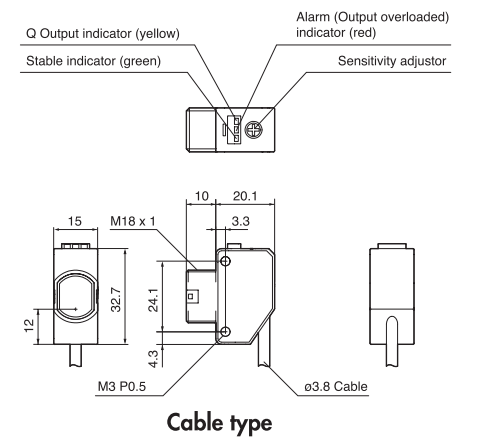
## Dimensions (mm)

### General Use Types except BGS



- A** Through Beam type
- B** Convergent Proximity short type
- C** Convergent Proximity long type
- D** Retro Reflexive type / Diffuse Proximity type

### BGS Types



## Options

### JCN-S : M8 Straight type



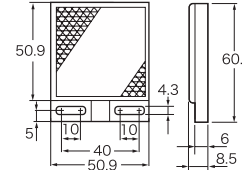
JCN-S : 2 meter  
JCN-SS : 5 meter  
JCN-10S : 10 meter

### JCN-L : L-shape M8 type

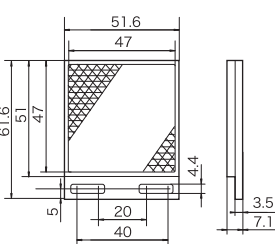


JCN-L : 2 meter  
JCN-5L : 5 meter  
JCN-10L : 10 meter

### V-61 : For YR-140 series



### P250 : For YR-39 series



- Specifications and technical information not mentioned here are written in Operation Manual. Or visit our website for details.
- All the warnings and cautions to know prior to use are given in Operation Manual.

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<http://www.optex-fa.com>

74573-00-RD0606

**OPTEX FA**

Easy Mount Photosensor

## Y Series

**Thru-Beam Type**  
YT-480 series

**Diffuse Reflective Type**  
YD-15 series

**Retro Reflective Type**  
YR-140 series

**Glass Sensing Type**  
YR-Q39 series

**Convergent Type**  
YD-L1 series (close focus)  
YD-L2 series (regular focus)

**BGS Type**  
BGS-Y8 series



Nice variety including BGS, Glass/plastic sensing  
designed with pig-tail cable.



<http://www.optex-fa.com>

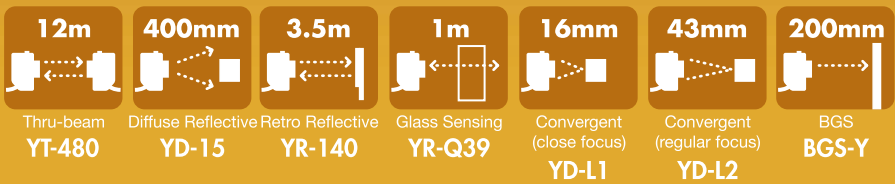
# Compact and Easy Mounting.

Nice variety of optical system flexibly aplying to your applications



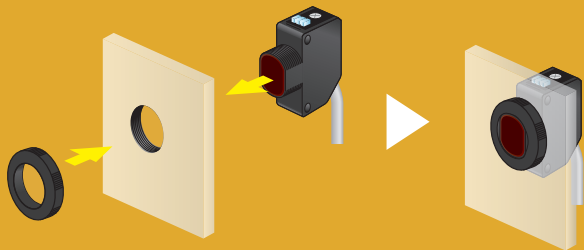
## Good Variations

Nice variation of sensing optics. Not only conventional ways but also two different types of convergent beam, BGS and Glass Sensing Types are available.



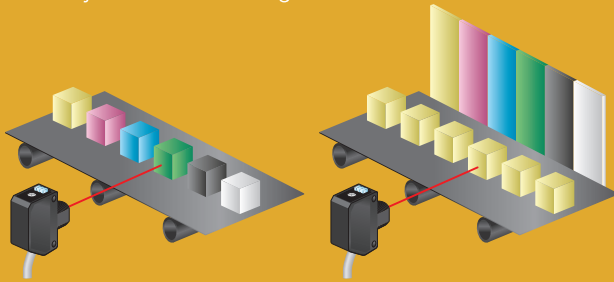
## Nose for easy mounting

Easy mounting squeezing into M12 hole. Conventional mounting holes are also designed in the housing.



## BGS sensing

BGS (Back Ground Suppression) sensing not influenced by colors and materials of object. BGS neglect background that may cause mal-sensing.



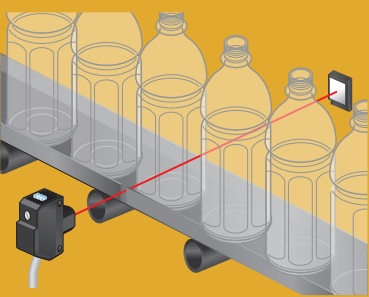
## Pig-tail connector

M12 pig-tail type are available for easy maintenance.



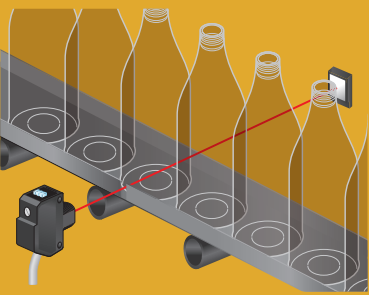
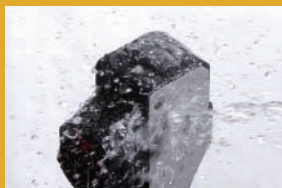
## Stable sensing even for plastic/glass

Optex FA's specialty to enable stable sensing of plastic and glass bottles. YR-Q series products is specialized with this application.

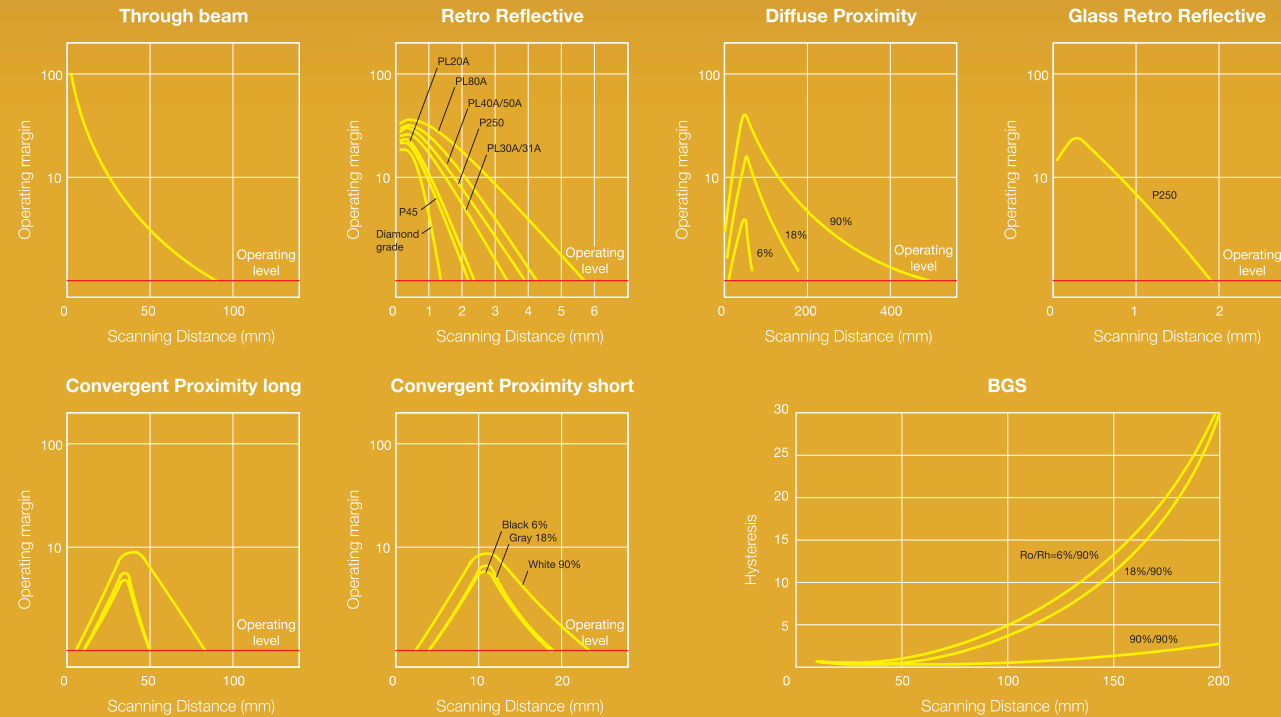


## Water Proof Mechanics

IP67 water protection is secured.



## Technical data



## Specifications

Model (NPN / PNP different model)	Through-beam	Diffuse reflective	Retro reflective	Retro - Glass	Convergent		BGS
					close focus	regular focus	
2 meter (apprx 78inch) cable	YT-480N / P	YD-15N / P	YR-140N / P	YR-Q39N / P	YD-L1N / P	YD-L2N / P	BGS-Y8N / P
M8 QD	YT-480CN / CP	YD-15CN / 15CP	YR-140CN / CP	YR-Q39CN / CP	YD-L1CN / CP	YD-L2CN / CP	BGS-Y8CN / CP
M12 pig-tail	YT-480N-M12 / P-M12	YD-15N-M12 / P-M12	YR-140N-M12 / P-M12	YR-Q39N-M12 / P-M12	YD-L1N-M12 / P-M12	YD-L2N-M12 / P-M12	BGS-Y8N-M12 / P-M12
Sensing range	12m (480 inch)	0.4m (15.7 inch)	3.5m (140 inch) V-61 reflector	1m (39.3 inch) P250 reflector	16mm (0.6 inch)	43mm (1.7 inch)	200mm (7.9 inch)
Light source	Red LED (visible)						
Hysteresis	N/A	20% max.	N/A	N/A	10% max.	10% max.	5%
Response time	0.5msec						
Indicator	3 Indicators (green indicator only :Emitter of YT-480) Yellow: output Green: stable Red: alarm - overload						
Operating Mode	Light ON / Dark On ( Q - Q bar )						
Sensitivity adjustment	1turn potentiometer						4turn multiple
Control output	NPN or PNP open collector, 100mA max. / 30VDC						
Shock resistance	100G , xyz three directions						
Emviroment luminance	Sunlight : 10,000 lux, Incandescent lamp : 3,000 lux max						
Ambient temperature	- 25°C to 55°C / 35 to 85% RH						
Storage temperature	-40 to 70 C / 35 to 90 % RH						
Supply voltage	10 - 30VDC incl. 10% ripple						
Power consumption	emitter:15mA max. 30mA max. receiver:20mA max.						
Conformity	CE, JIS/C4525,						
Circuit protection	Reverse polarity, transient voltages, Output overcurrent						
Housing materials	ABS with 20% glass (case), PMMA (lens)						
Protection category	IEC 144, IP67						

Specifications are subject to change without prior notice.