

R3N3 50mm photoelectric sensor indicator

Pick-to-light , Assembly to order , Error proofing/poka- yoke



- Non-touch occlusion sensing switch, the non-contact sensing distance of human hand is > 10cm, which can be sensed infinitely
- Diffuse reflection working mode
- Anti-false trigger mechanism, reliable and convenient
- IO built-in logic type, IOD independent control type, IB intelligent bus driver optional
- IEC IP67 protection grade, sturdy and durable, suitable for various operating occasions

SENSING

Model	Drive Mode	Electrical Polarity	Enable color	Induction + Enable Color	Sensing no enable color	Connection method
R3N3 – IO		P	G	Y	R	LN
	IO: Built-in logic IOD: Independent control type IB: bus type	P: PNP N: NPN	IO type: choose between G/Y/R IOD type: The model is unified as RYG, and the light color is controlled by three input enablers. IB type: The model is unified as RYG, and the 7-color control is freely realized by the bus data.			LN: loose wire QD: quick connector with wire QDI: Built-in quick connector



Specification

Supply voltage and current:

DC12V-30V
Each color: MAX<50mA@DC24V (without load)

IO type output current:

Maximum load: 150mA
Output state saturation voltage: 2V (DC10mA); 2.5V (DC150mA)

IO type input is valid:

>7.2V, input resistance 10K

IB communication bus:

38.4K baud rate, maximum transmission distance of 200 meters

Electrical protection:

Overcurrent, overvoltage protection; reverse connection protection

Shell material:

Light Shade: Polycarbonate + Epoxy
Base Cover: ABS (70%) + Polycarbonate (30%)

Control distance:

50~200mm

Indication color:

IO type: enable input - green: sense + enable - yellow;
sense no enable - red
IOD type: control lamp color by three input enable
IB type: red, green, blue, yellow, cyan, pink, custom control

Way out:

4X0.3mm² four-core PVC cable or 6X0.25mm² six-core PVC cable

Connection method:

Quick connector (0.3m) or loose wire connection (1m)

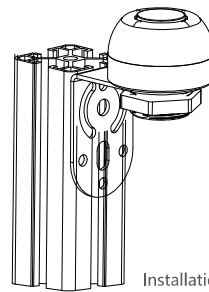
Operating environment:

Temperature:-40°C to +50°C(-40°F to +122°F)
Diffuse: 95%at50°C(no condensation)

Protection class:

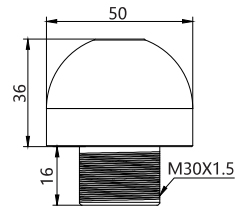
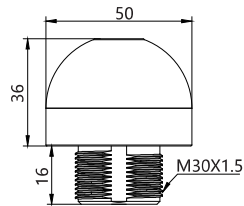
IEC IP67

Certification:



Installation diagram

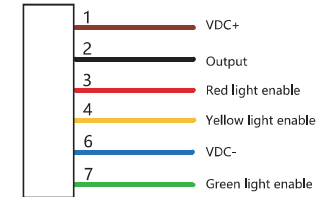
Dimensions



Wiring Diagram

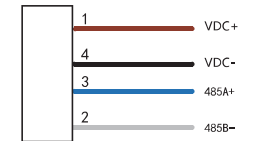
Line Order	Line Color	Description
1	Brown	VDC+
2	Grey	Output
3	Red	Red light enable
4	Yellow	Yellow light enable
6	Blue	VDC-
7	Green	Green light enable

*R3N3-Type IOD



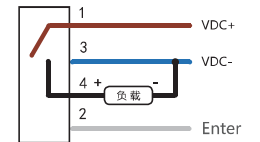
Line Order	Line Color	Description
1	Brown	VDC+
4	Black	VDC-
3	Blue	485A+
2	Grey	485B-

*R3N3-Type IB



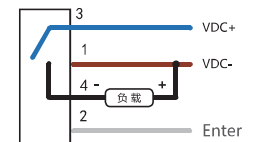
Line Order	Line Color	Description
1	Brown	VDC+
4	Grey	Enter
3	Blue	VDC-
2	Black	Output

*R3N3-Type IOP

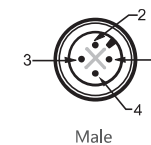


Line Order	Line Color	Description
1	Brown	VDC+
4	Grey	Enter
3	Blue	VDC-
2	Black	Output

*R3N3-Type ION

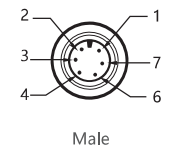


R3N3-Type IO , R3N3-Type IB



Male

R3N3-Type IOD



Male