

# Photoelectrics Diffuse-Reflective Type CGPS-UR, DC, Plastic Housing

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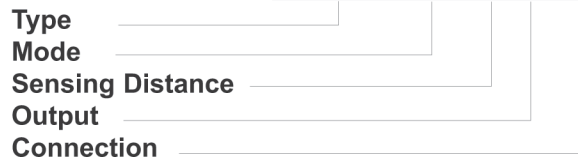
- Ultra short body length
- 100 & 300 mm sensing range
- Dual output – NO & NC in single unit
- Supply Voltage: 10 to 30 VDC
- Cable and plug versions
- IP66
- CE marked, UL and cUL approved

## Product Description

The CGPS-UR... is a family of cost-effective general purpose diffuse photoelectric sensors in a compact and versatile 18mm housing. They are useful for simple applications where a basic sensor provides adequate sensing performance, or for applications requiring a compact sensor with exceptional sensing range. The sensors are simple to use and easy to install. The sensors have both Normally open and Normally closed outputs, making them versatile for any installation.

## Ordering Key

**CGPS-UR-10N-M8**



## Type Selection

Housing Diameter	Sensing Distance	Output N.O. & N.C.	2 m cable	M8 Connector	M8 Connector w/lead
M18	100 mm	NPN	CGPS-UR-10N	CGPS-UR-10N-M8	CGPS-UR-10N-PG
M18	100 mm	PNP	CGPS-UR-10P	CGPS-UR-10P-M8	CGPS-UR-10P-PG
M18	300 mm	NPN	CGPS-UR-30N	CGPS-UR-30N-M8	CGPS-UR-30N-PG
M18	300 mm	PNP	CGPS-UR-30P	CGPS-UR-30P-M8	CGPS-UR-30P-PG

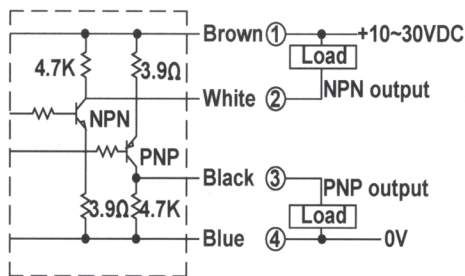
## Specifications

<b>Sensing Distance (<math>S_n</math>)</b> Adjustable	100 mm & 300 mm	<b>Ambient Light Immunity</b>	Lamplight < 10, 000 Lux Sunlight < 20, 000 Lux
<b>Sensitivity Adjustment</b>	270° Potentiometer	<b>Response Time</b> <b>Operating Frequency</b>	1 ms 1 KHz
<b>Rated Operational Voltage (<math>U_B</math>)</b>	10 - 30 VDC	<b>Output indication (LED functions)</b>	Green: Power ON Yellow: Output ON
<b>Ripple (<math>U_{rpp}</math>)</b>	< 20%	<b>Environment</b> Overvoltage Category Pollution degree Degree of protect	III 3 IP 66
<b>Output Current</b>	150 mA maximum	<b>Operating Temperature</b>	-20 °C - to +80 °C; -4F to +176F 35% - 85% RH
<b>No Load Supply Current (<math>I_O</math>)</b>	< 30 mA		

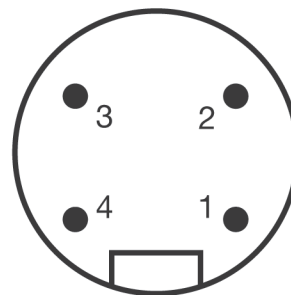
### Specifications (con't):

<b>Leakage Current</b>	0.8 mA Maximum	<b>Housing Lens</b>	Intensive PBT PMMA
<b>Residual Voltage</b>	0.1 V Maximum	<b>Connection</b>	Cable Plug Pig-tail
<b>Protection</b>	Short Circuit, Reverse Polarity		2m M8 x 1 M8 Plug w / 6" Cable
<b>Transient Voltage</b>	2 kV / 1 $\mu$ s	<b>Mating Cable</b>	M8 plug CONG5A - .. series
<b>Light Source</b>	Infrared LED	<b>Weight</b>	Cable version M12 M8 plug version
<b>Dielectric Voltage</b>	2.5 kV		85 g 25 g 20 g
		<b>Approvals</b>	UL, cUL, CE

### Wiring Diagram:

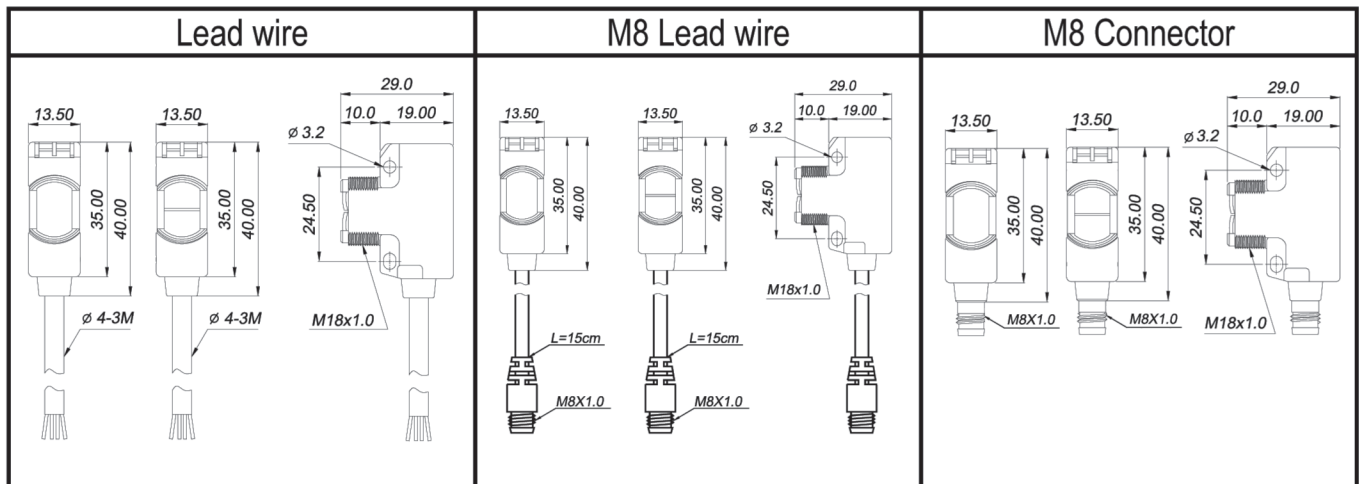


### Connection Diagram:



Pin1: +v Brown  
 Pin2: N.C. Output White  
 Pin4: N.O. Output Black  
 Pin3: 0v Blue

### Dimensions:



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### Other Information:

<b>Accessories:</b>	CONM54NF-... for models with M8 plug
<b>Delivery Contents:</b>	<ul style="list-style-type: none"><li>• Photoelectric sensor</li><li>• 1 nut</li><li>• 1 mounting bracket</li><li>• 1 screwdriver (on models with adjustable sensitivity)</li></ul>
<b>Compliance/Approvals:</b>	

