

Photoelectrics Through-Beam Type CGPS-UT, DC, Plastic Housing

CARLO GAVAZZI



- Ultra short body length
- 6 m & 20 m sensing ranges
- Multiple connection options
- Dual output – N.O. & N.C.
- Supply voltage: 10 to 30 VDC
- Cable and plug versions
- IP66
- CE marked, UL and cUL approved

Product Description

The CGPS-UT... is a family of cost-effective general-purpose through-beam 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. Part number includes both transmitter and receiver.

Ordering Key **CGPS-UT-20MN-M8**

Type _____
 Mode _____
 Sensing Distance _____
 Output _____
 Connection _____

Type Selection

Housing Diameter	Sensing Distance	Output N.O. & N.C.	2 m cable	M8 Connector	M8 Connector w/lead
M18	6 m	NPN	CGPS-UT-6MN	CGPS-UT-6MN-M8	CGPS-UT-6MN-PG
M18	6 m	PNP	CGPS-UT-6MP	CGPS-UT-6MP-M8	CGPS-UT-6MP-PG
M18	20 m	NPN	CGPS-UT-20MN	CGPS-UT-20MN-M8	CGPS-UT-20MN-PG
M18	20 m	PNP	CGPS-UT-20MP	CGPS-UT-20MP-M8	CGPS-UT-20MP-PG

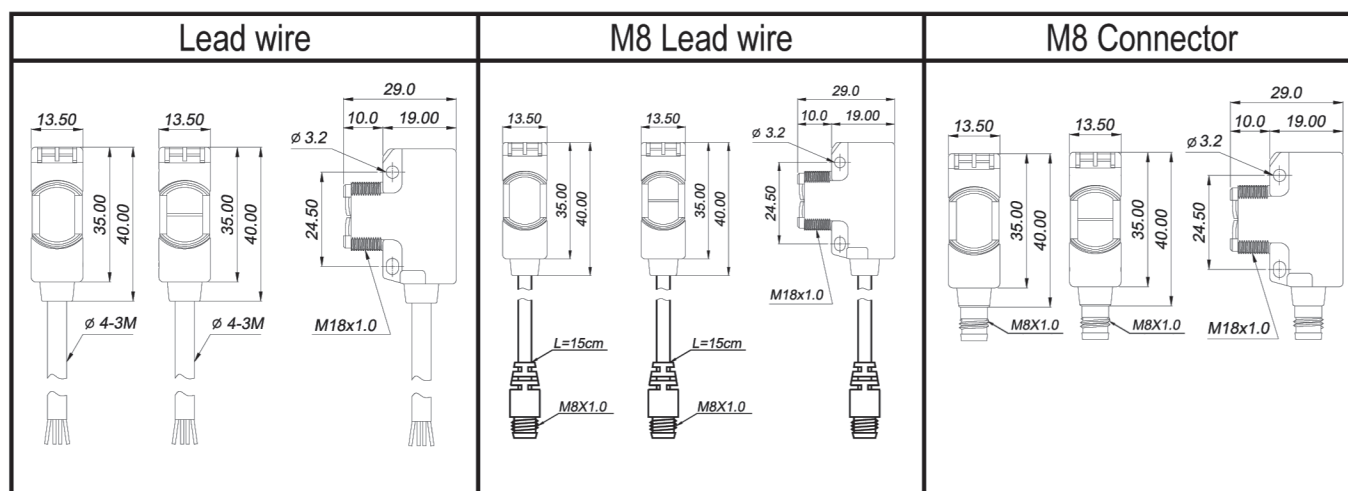
Specifications

Sensing Distance (S_n) Fixed Adjustable	6 m & 20 m	Ambient Light Immunity	Lamplight < 10, 000 Lux Sunlight < 20,000 Lux
Rated Operational Voltage (U_B)	10 - 30 VDC	Response Time Operating Frequency	1 ms 1 KHz
Ripple (U_{rpp})	< 20%	Output indication (LED functions)	Green: Power ON Yellow: Output ON
Output Current	150 mA maximum	Environment Overvoltage Category Pollution degree Degree of protect	III 3 IP 66
No Load Supply Current (I_o)	Tx <20 mA; Rx <20mA	Operating Temperature	-20 °C to +80 °C; -4F to +176F 35% - 85% RH
Leakage Current	0.8 mA Maximum		

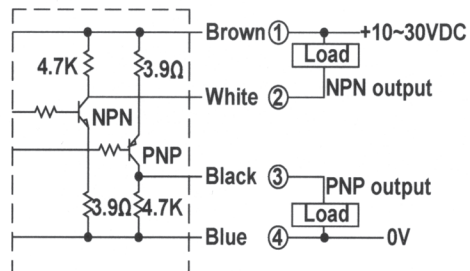
Specifications (con't):

Residual Voltage	0.1V Maximum	Material Housing Lens	Intensive PBT PMMA
Protection	Short Circuit, Reverse Polarity	Connection Cable Plug Pig-tail	2m M8 x 1 M8 Plug w / 6" Cable
Transient Voltage	2 kV / 1µ s	Mating Cable M8 plug	CONG5A - .. series
Light Source	6 m Red LED 20 m Infrared LED	Weight Cable version M12 plug version M8 plug version	170 g 48 g 42 g
Dielectric Voltage	2.5 kV	Approvals	UL, cUL, CE

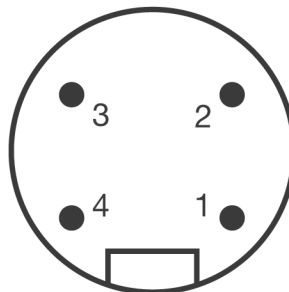
Dimensions:



Wiring Diagram:



Connection Diagram:



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

Other Information:

Accessories:

- CONM54NF-... for models with M8 plug

Delivery Contents:

- Photoelectric sensor (emitter and receiver)
- 2 nuts
- 2 mounting brackets

Compliance/Approvals:

