



# Electronics and sensors | Reflective sensors

## Photoelectric Sensor with background suppression

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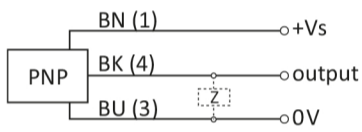
#### Product notes

- > Sensor for optical parts confirmation
- > Background suppression
- > Red light
- > qTeach is locked 5 minutes after being switched on, to avoid unwanted setup changes
- > short circuit and reverse polarity protection

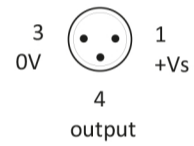
#### Technical data

<b>Item no.</b>	<b>GS03.010</b>
Adjustable range [mm]	30 - 300
Switching output	PNP
Operating voltage [V]	10 - 30
Max. current consumption (without load) [mA]	45
Current consumption middle [mA]	30
Response time [ms]	< 1
Protection class	IP67
Background suppression	yes
Electric connection	3-pin male M8 connector
Ambient air temperature [°C (°F)]	-25 - 60 (-13 - 140)
Weight [g]	76
Accessories	Mounting bracket: GS03.14045 Mounting bracket: GS03.14090 Mounting bracket: GS03.14130 Connecting cable: 20.503 Connecting cable: 20.507 Extension cable: 20.504 Extension cable: 20.570

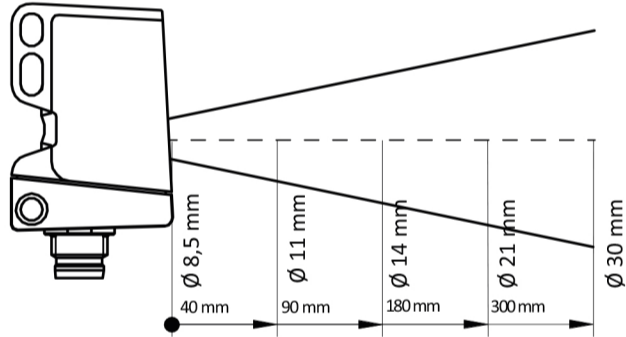
#### Wiring diagram and Pin assignment



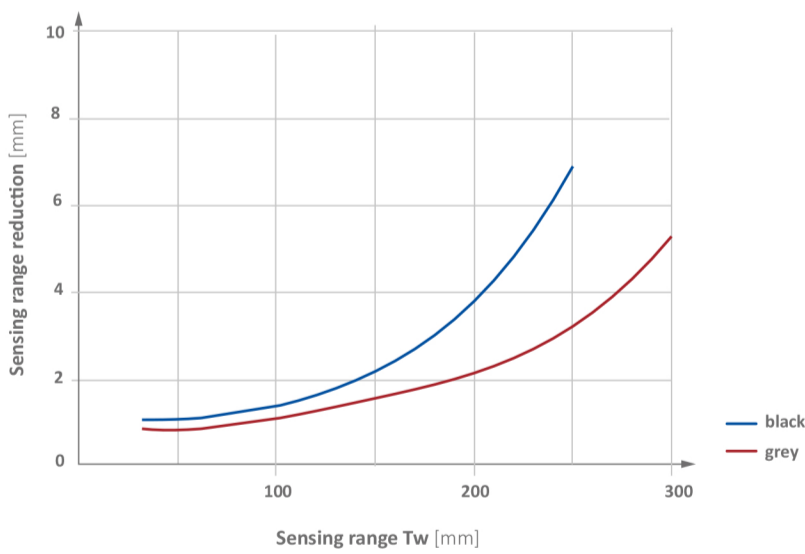
BN = Braun/brown  
BK = Schwarz/black  
BU = Blau/blue



#### Beam characteristic



#### Sensing distance diagram



#### Dimensions

