



Photoelectric sensors
Background blanking, Photoelectric proximity
sensor, Product group W160

WT160-F320



Model Name > [WT160-F320](#)
Part No. > [6022789](#)



- Vertical models
- Focussed proximity switch with background blanking
- Red light as alignment aid
- Switching point adjustable
- LED indicator: operating reserve



Product features

| | |
|-----------------------------|--------------------------------|
| Sensing range min ... max:: | 4 mm ... 60 mm, 8 mm ... 50 mm |
| Light source:: | LED |
| Type of light: | Red light |
| Light spot diameter: | Approx. 3 mm at 25 mm distance |
| Laser: | Red light |
| Sensing range max.: | 4 mm ... 60 mm, 8 mm ... 50 mm |
| Adjustment:: | Potentiometer, 2 rotations |
| Wave length: | 680 nm |

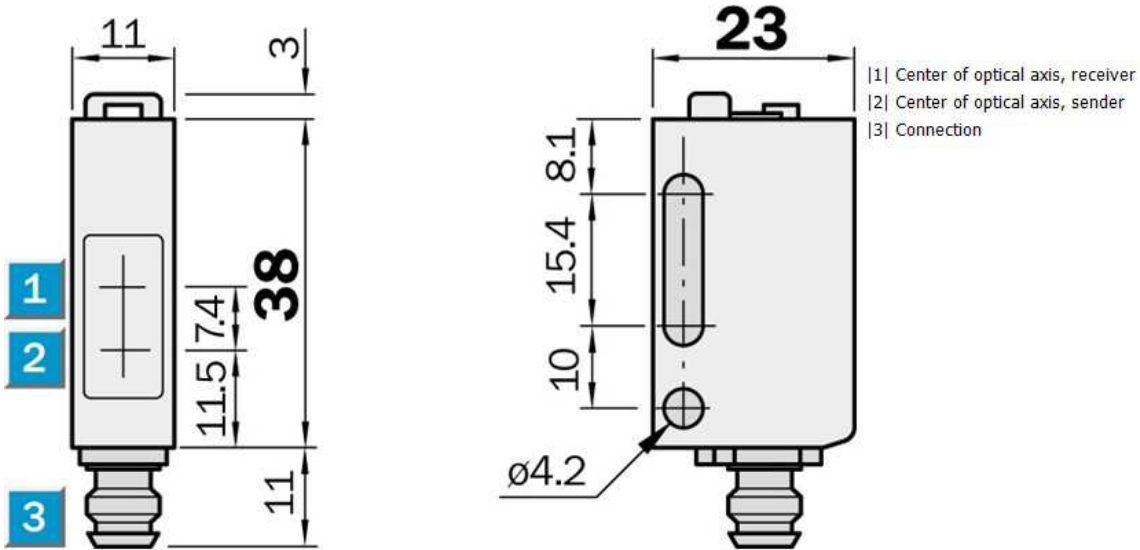
Technical data

| | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design:: | Rectangular |
| Dimensions (W x H x D): | 11 mm x 38 mm x 23 mm |
| Supply voltage min ... max.: | DC 10 ... 30 V ¹⁾ |
| Ripple: | ± 10 % |
| Power consumption: | ≤ 25 mA |
| Output type: | PNP: open collector: Q |
| Switching mode: | Light/dark switching via rotary switch |
| Output current max.: | 100 mA |
| Response time:: | ≤ 0.5 ms |
| Switching frequency: | 1,000 Hz |
| Connection type: | Connector, M8, 3-pin |
| Circuit protection: | V _S connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/Outputs overcurrent and short-circuit protected |
| Enclosure rating:: | IP 67: EN 60529, IP 69K: EN 40050 |
| Ambient operation temperature, min ... max.: | -25 °C ... +55 °C |
| Ambient storage temperature, min ... max.: | -40 °C ... +70 °C |
| Weight: | Ca. 20 g |

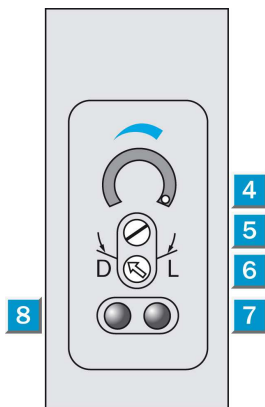
| | |
|------------------------------|--------------------------|
| Housing material: | PBT |
| Signal voltage PNP HIGH/LOW: | Vs - 1.8 V / approx. 0 V |
| Series: | W160 |
| Optics material: | PMMA |
| Housing design: | Vertical |

1) Limit values, reverse-polarity protected operation in short-circuit protected network max. 8 A

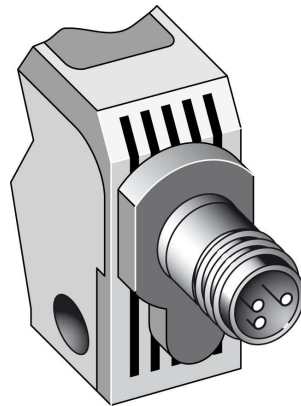
Dimensional drawing



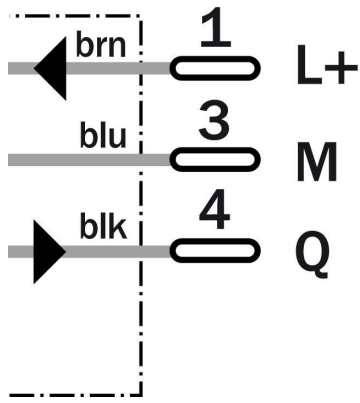
Adjustment possible



Connection type



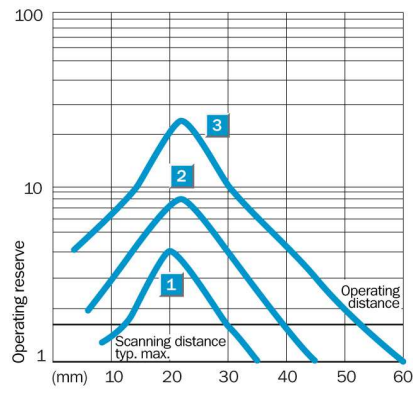
Connection diagram



Sensing range diagram

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Characteristic curve



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