



Photoelectric sensors  
Energetic, Photoelectric proximity sensor,  
Product group W160T

WTE160T-F262



**Model Name** > [WTE160T-F262](#)  
**Part No.** > [6021892](#)



- Vertical models
- Large scanning distance
- Infrared variant for objects with low reflectance
- LED indicator: function reserve

**The product has been discontinued on 31.07.2014. Please contact your SICK sales representative for more information about a replacement product.**



#### Product features

|                            |                                                                     |
|----------------------------|---------------------------------------------------------------------|
| Sensing range min ... max: | 0 mm ... 1,000 mm, 0 mm ... 1,300 mm                                |
| Light source:              | LED                                                                 |
| Type of light:             | Infrared light                                                      |
| Light spot diameter:       | Approx. 85 mm at 1 m distance                                       |
| Laser:                     | Infrared light                                                      |
| Sensing range max.:        | 0 mm ... 1,000 mm, 0 mm ... 1,300 mm                                |
| Relating to:               | Object with 90 % reflectance (referred to standard white, DIN 5033) |
| Adjustment.:               | Teach-in: single teach-in button & cable                            |
| Wave length:               | 890 nm                                                              |

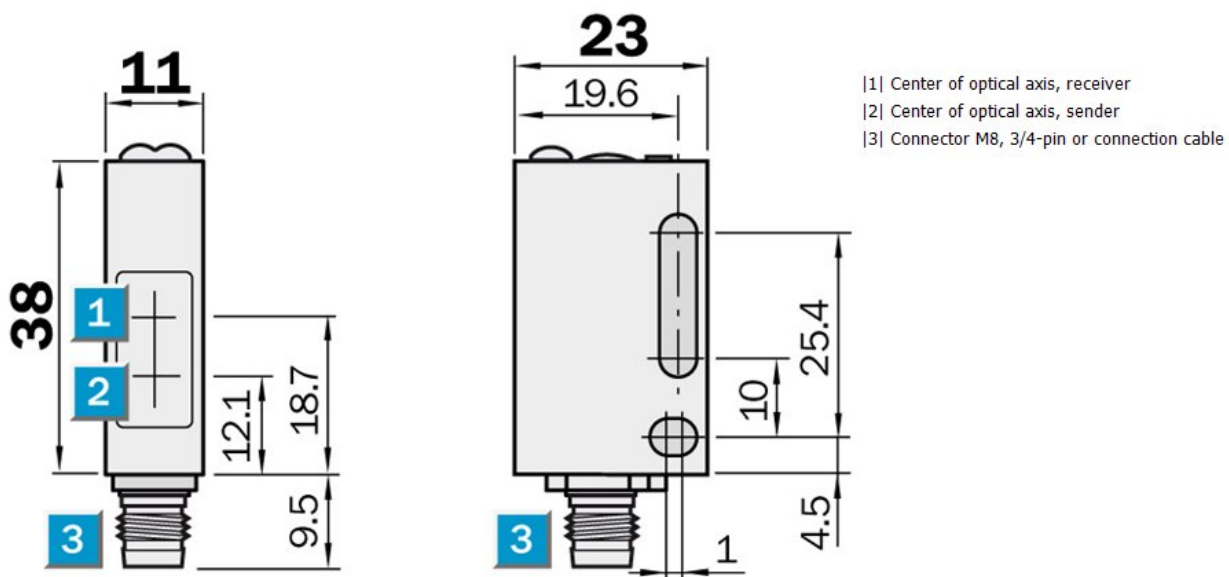
#### Technical data

|                             |                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design:                     | Rectangular                                                                                                                                                        |
| Dimensions (W x H x D):     | 11 mm x 38 mm x 23 mm                                                                                                                                              |
| Supply voltage min ... max: | DC 10 ... 30 V <sup>1)</sup>                                                                                                                                       |
| Ripple:                     | ± 10 %                                                                                                                                                             |
| Power consumption:          | ≤ 40 mA                                                                                                                                                            |
| Switching output:           | 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:            | Cable, 2 m                                                                                                                                                         |
| Number of cores:            | 4                                                                                                                                                                  |
| Conductor size:             | 0.2 mm <sup>2</sup>                                                                                                                                                |
| Circuit protection:         | V <sub>S</sub> connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/Outputs overcurrent and short-circuit protected |

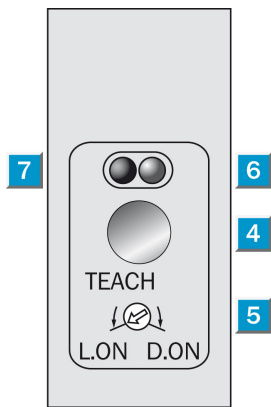
|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Enclosure rating:                           | IP 67: EN 60529, IP 69K: EN 40050 |
| Ambient operation temperature, min ... max: | -25 °C ... ++55 °C                |
| Ambient storage temperature, min ... max:   | -40 °C ... ++70 °C                |
| Weight:                                     | Ca. 60 g                          |
| Housing material:                           | PBT                               |
| Series:                                     | W160T                             |
| Optics material:                            | PMMA                              |
| Cable diameter:                             | Ø 4.2 mm                          |
| Front screen heating:                       | -                                 |
| Polarisation filter:                        | -                                 |
| Housing design:                             | Vertical                          |
| Cable material:                             | PVC                               |
| UL File No.:                                | NRNT2.E128350 & NRNT8.E128350     |
| Signal voltage PNP HIGH/LOW:                | Vs - 1.8 V / approx. 0 V          |

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

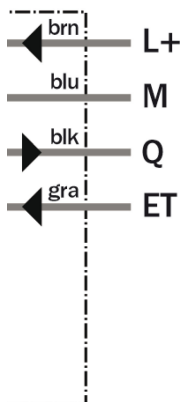
## Masszeichnung



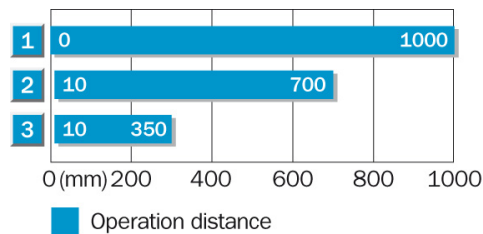
Einstell-Möglichkeiten



Anschluss-Schema

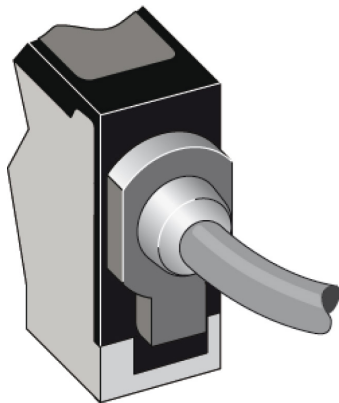


Schaltabstand-Diagramm

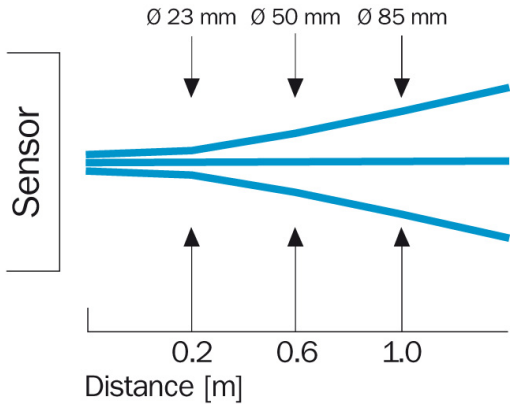


- 1 Scanning range on white, 90 % reflectance
- 2 Scanning range on grey, 18 % reflectance
- 3 Scanning range on black, 6 % reflectance

Anschlussart



Light spot diameter



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