

# FT 25-W2-GS-KL4

## Ordering information

**Designation for ordering** FT 25-W2-GS-KL4

**Part number** 607-21015

**Order text** White light contrast sensor, 12 +/- 2,5mm, 10 kHz, Push Pull, teach in, pigtail 150 mm with plug M12 4-polig, IP67 & IP69K For this product a new version is available: 607-21035 FT 25-W2-GSL-KL4 That offers additional functionality via IO-Link. More product information you can find on [www.sensopart.com](http://www.sensopart.com)



**Components supplied** Operating manual, Sensor

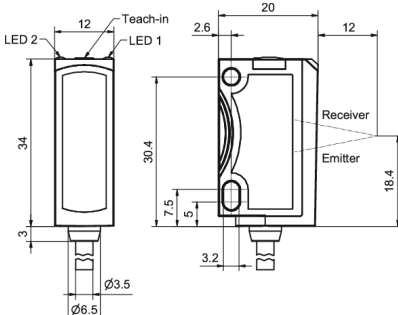
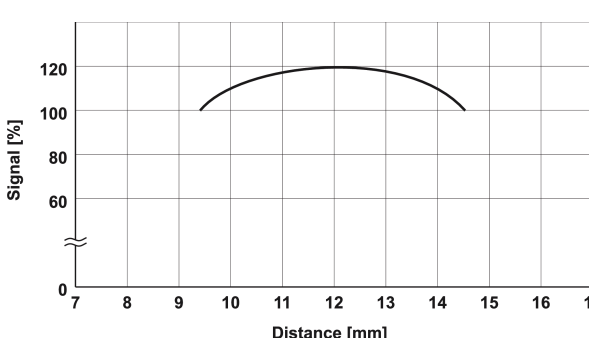
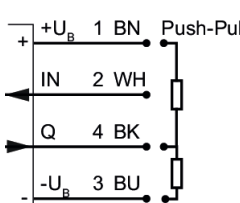


| Optical data                       |                                   |
|------------------------------------|-----------------------------------|
| Scanning distance [mm]             | 12                                |
| Scanning distance tolerance [mm]   | -2.5 ... 2.5                      |
| Light source                       | LED                               |
| Light color                        | White                             |
| Light spot size [mm]               | 1 x 4                             |
| Switching frequency ≤ [Hz]         | ≤ 10,000                          |
| Explanation of switching frequency | $f = 1 / (T \times Nyq \times 2)$ |

| Functions           |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| Display, LED yellow | Switching output indicator                                                      |
| Display, LED green  | Operating voltage indicator                                                     |
| Setting options     | LO / DO via the teach-in button and control input Button lock via control input |
| Sensitivity setting | Via teach-in button and control input                                           |
| Teach-in modes      | Mode 1: during running process<br>Mode 2: when process at standstill            |

| Electrical data                     |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Operating voltage UB [V DC]         | 10 ... 30                                                         |
| Explanation of operating voltage UB | max. 10% residual ripple, within UB, ~ 50 Hz 100 Hz               |
| No-load current [mA]                | ≤ 30                                                              |
| Output current [mA]                 | ≤ 100                                                             |
| Readiness delay [ms]                | ≤ 300                                                             |
| Reverse polarity protection         | Yes                                                               |
| Short circuit protection            | Yes                                                               |
| Response time Q [μs]                | ≤ 60                                                              |
| Control input                       | +UB = Teach-in<br>- UB = button locked<br>open = normal operation |
| Protection class                    | 2                                                                 |
| Jitter [μs]                         | 25.0                                                              |
| Output function                     | LO/DO                                                             |
| Switching output Q                  | Push-pull                                                         |
| Number of outputs                   | 1                                                                 |

| Mechanical data                                     |                                   |
|-----------------------------------------------------|-----------------------------------|
| Height [mm]                                         | 34.0                              |
| Length [mm]                                         | 20.0                              |
| Width [mm]                                          | 12.0                              |
| Weight [g]                                          | ~ 20                              |
| Front panel material                                | PMMA                              |
| Housing material                                    | ABS                               |
| Ambient temperature: operation [°C]                 | -20 ... 55                        |
| Explanation of operation at ambient air temperature | UL: -20 +50                       |
| Ambient temperature: storage [°C]                   | -20 ... 80                        |
| Protection class                                    | IP 67, IP 69                      |
| Explanation of protection class                     | With IP 67/ IP 69K plug connected |
| Vibration and shock resistance                      | EN 60947-5-2                      |
| Connection name                                     | Pigtail, plug M12, 4-wire, 150 mm |

| Technical drawings  |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| Dimensional drawing |  <div>153-00996</div>  |
| Signal history      |  <div>155-01647</div> |
| Connections         |  <div>154-00527</div>  |

**Product link**

<https://www.sensopart.com/en/products/details/607-21015>