



Photoelectric sensors
for transparent objects, Photoelectric retro-
reflective sensor, Product group W170

WL170-P420



Model Name > [WL170-P420](#)
Part No. > [6010186](#)



Product features

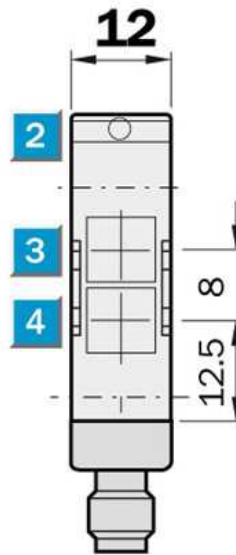
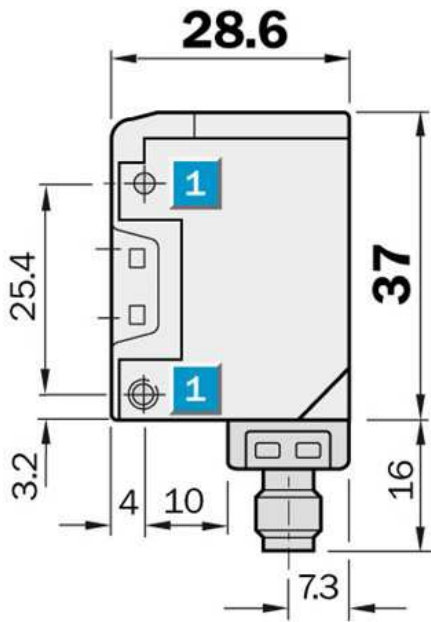
| | |
|-----------------------------|-----------------------------------|
| Sensing range min ... max:: | 0.1 m ... 0.65 m, 0.1 m ... 0.8 m |
| Type of light: | Visible red light |
| Laser: | Visible red light |
| Sensing range max.: | 0.1 m ... 0.65 m, 0.1 m ... 0.8 m |
| Light spot size: | Approx. 30 mm at 0.5 m distance |

Technical data

| | |
|--|---|
| Design:: | Rectangular |
| Dimensions (W x H x D): | 12 mm x 28.6 mm x 37 mm |
| Supply voltage min ... max.: | DC 10 ... 30 V ¹⁾ |
| Output type: | PNP: open collector: Q |
| Switching mode: | Light-/dark-switching via L/D control cable |
| Response time:: | ≤ 0.7 ms |
| Enclosure rating:: | IP 67 |
| Ambient operation temperature, min ... max.: | -25 °C ... +55 °C |
| Housing material: | Stainless steel/ABS |
| Series: | W170 |
| Polarisation filter: | - |
| AS Interface chip: | 0 |

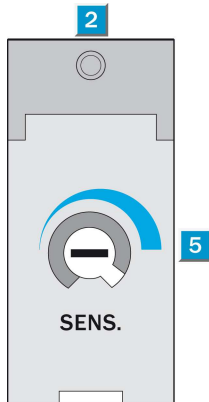
¹⁾ Limit values

Dimensional drawing

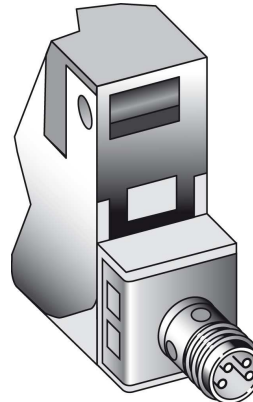


- [1] Mounting hole, \varnothing 3 mm with integrated M3 thread
- [2] LED signal strength indicator, red: light received \geq switching threshold
- [3] Center of optical axis, receiver
- [4] Center of optical axis, sender

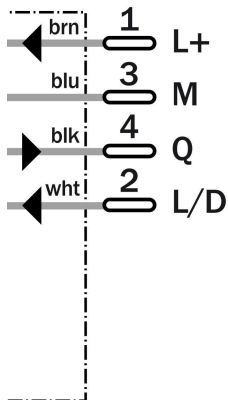
Adjustment possible



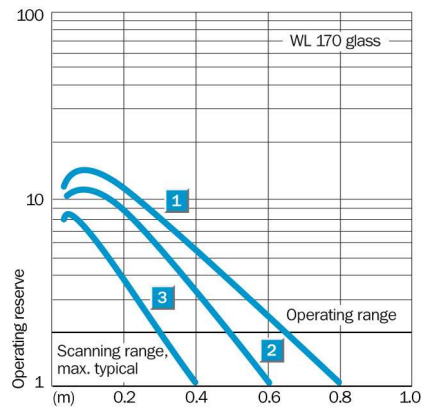
Connection type



Connection diagram



Characteristic curve



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