



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

WL170-N420



**Model Name** > [WL170-N420](#)  
**Part No.** > [6010188](#)



**Product features**

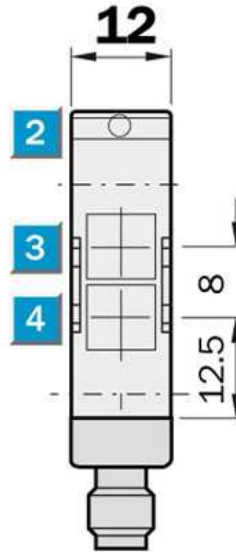
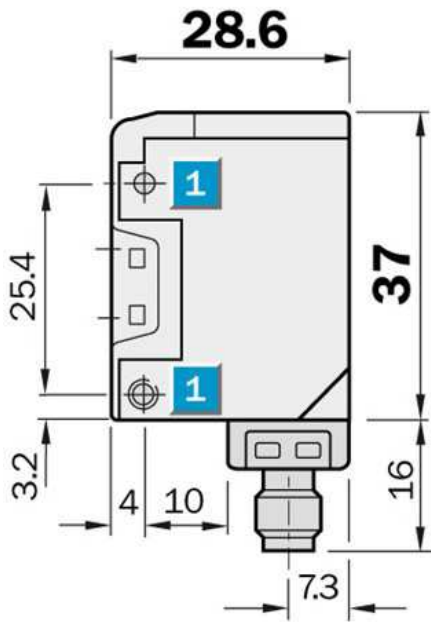
Sensing range min ... max::	0.1 m ... 0.65 m, 0.1 m ... 0.8 m
Type of light:	Visible red light
Laser:	Visible red light
Sensing range max.:	0.1 m ... 0.65 m, 0.1 m ... 0.8 m
Light spot size:	Approx. 30 mm at 0.5 m distance

**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 <sup>1)</sup>
Output type:	NPN: 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

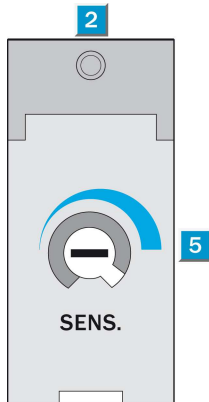
<sup>1)</sup> Limit values

**Dimensional drawing**

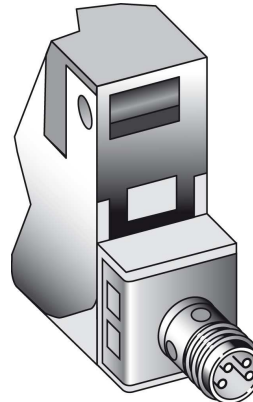


- [1] Mounting hole,  $\varnothing$  3 mm with integrated M3 thread
- [2] LED signal strength indicator, red: light received  $\geq$  switching threshold
- [3] Center of optical axis, receiver
- [4] Center of optical axis, sender

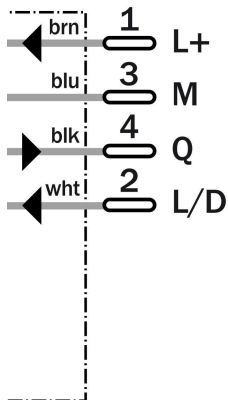
**Adjustment possible**



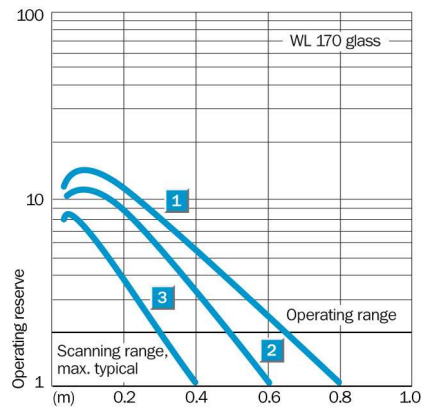
**Connection type**



**Connection diagram**



**Characteristic curve**



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