

# WL 260

## Reflex/Retro-Reflective Sensors



**0.3...49.2 (0.01...15 m)**  
sensing range



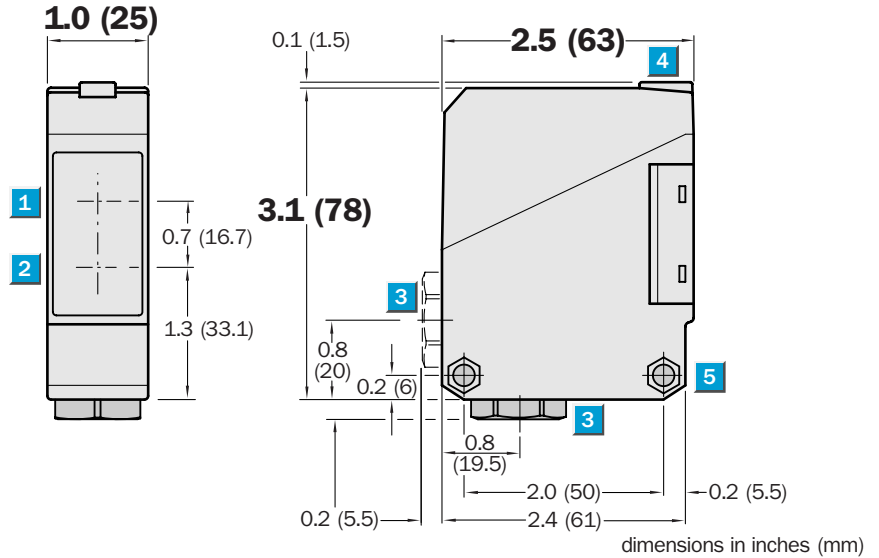
## Highlights

- Rugged plastic housing
- Polarizing filters prevent false readings on reflective surfaces
- Terminal chamber for connection flexibility
- Sensitivity adjustment
- Wide range supply voltage
- Adjustable time delays
- Reflector included

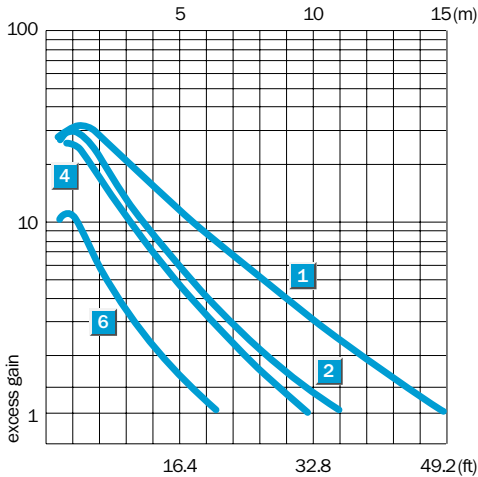
## WL 260



## Dimensional Drawing

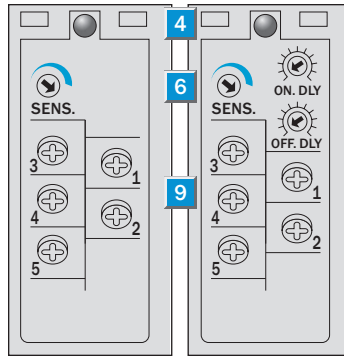


## Excess Gain



## Adjustments

WL 260-S270    WL 260-R270



- Center of optical axis, receiver
- Center of optical axis, sender
- 1/2" terminal chamber PF thread for cable diameters from 6 to 10 mm optionally at bottom or rear
- LED signal strength indicator, red
- Through hole  $\varnothing$  5.2 mm on both sides for M5 hex nut
- Sensitivity adjustment
- Time control ON-delay  $t_{ON}$
- Time control OFF-delay  $t_{OFF}$
- Terminals

Reflector Type	Sensing Range
1 PL 80 A	0.01...15.0 m
2 P 250	0.01...11.0 m
3 PL 50 A, PL 40 A	0.01...12.5 m
4 PL 30 A, PL 31 A	0.01...9.7 m
5 PL 20 A	0.01...7.8 m
6 Reflective tape diamond grade	0.01...6.5 m

Order Information	
Type	Part no.
WL 260-S270	6 020 767
WL 260-R270	6 020 768

Accessories	page
Mounting brackets*	924, 935
Reflector P 250*	936

\* included with delivery

Technical Data		WL 260-	S270	R270						
<b>Sensing range</b>	0.3...36.1 ft (0.01...11 m)/P 250 (included)									
	0.3...49.2 ft (0.01...15 m)/PL 80 A									
Sensitivity	Adjustable, potentiometer 270°									
<b>Light source<sup>1)</sup>, light type</b>	LED, visible red light, polarized									
Light spot diameter	Approx. 11.8 in at 32.8 ft (300 mm at 10 m)									
Angle of divergence	Approx. 1.7°									
<b>Supply voltage V<sub>s</sub><sup>2)</sup></b>	12...240 V DC									
	24...240 V AC									
Power consumption	≤ 5 VA									
<b>Switching output</b>	Relay, SPDT, electrically isolated									
Switching current I <sub>A</sub> max. <sup>3)</sup>	3 A/240 V AC; 3 A/30 V DC									
Operation mode	Light switching									
Response time	≤ 20 ms									
Max. switching frequency <sup>4)</sup>	25 Hz									
<b>Time delays</b>										
ON delay t <sub>ON</sub>	0.1...10 s, can be connected separately									
OFF delay t <sub>OFF</sub>	0.1...10 s, can be connected separately									
<b>Connection type</b>	Terminal chamber									
<b>CE noise radiation</b>	Level EN 50081-1 ("Residential standard")									
<b>VDE protection class<sup>5)</sup></b>	<input type="checkbox"/>									
<b>Circuit protection<sup>6)</sup></b>	A, C									
<b>Enclosure rating</b>	IP 67									
<b>Ambient temperature T<sub>A</sub></b>	Operation -13...131°F (-25...55°C)									
	Storage -40...158°F (-40...70°C)									
<b>Approximate weight</b>	4.2 oz (120 g)									
<b>Housing material</b>	Glass fiber reinforced ABS									

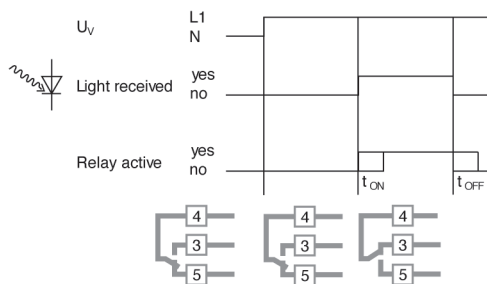
1) Average service life 100,000 h  
at T<sub>A</sub> = 25°C  
2) ± 10%

3) Provide suitable spark suppression for  
inductive or capacitive loads  
4) With light/dark ratio 1:1

5) Reference voltage 250 V UC  
6) A = V<sub>s</sub> connections reverse-polarity  
protected  
C = Interference suppression

### Time Delays

t = 0.1–10 s



### Connection Diagram

