

WL 260

Reflex/Retro-Reflective Sensors



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



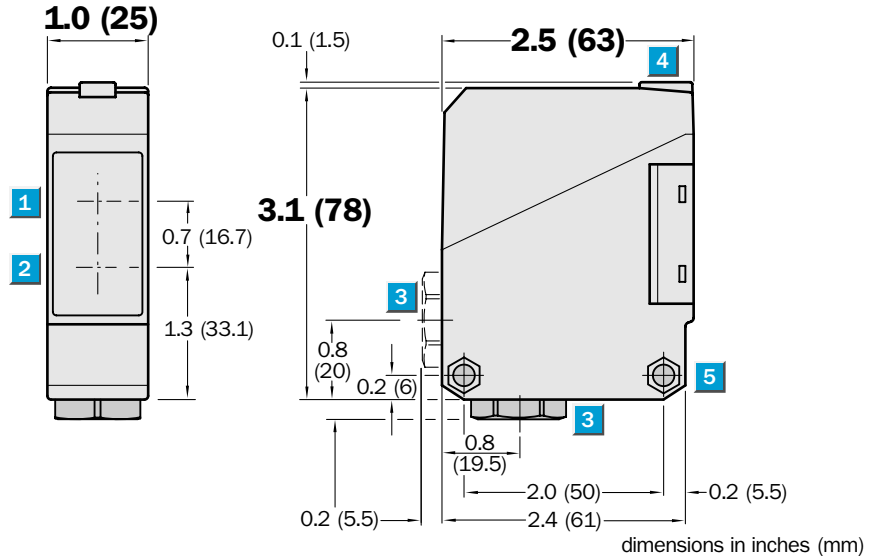
Highlights

- 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

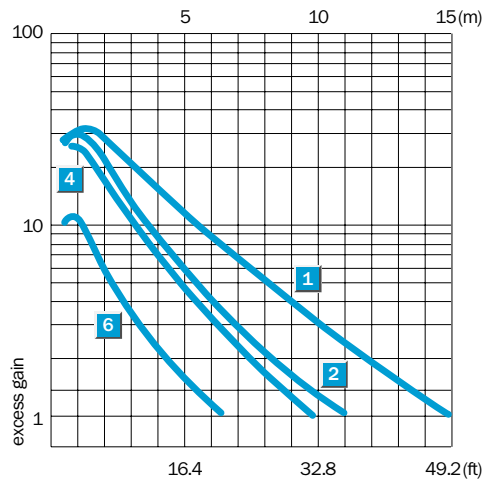
WL 260



Dimensional Drawing

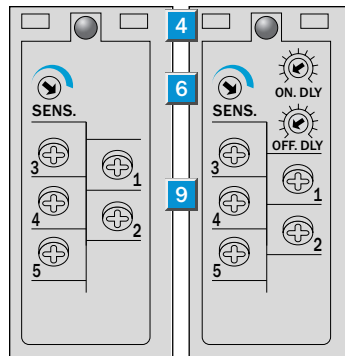


Excess Gain



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 Ø 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							
Sensing range	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°										
Light source¹⁾, light type	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°										
Supply voltage V_S²⁾	12...240 V DC										
	24...240 V AC										
Power consumption	≤ 5 VA										
Switching output	Relay, SPDT, electrically isolated										
Switching current I _A max. ³⁾	3 A/240 V AC; 3 A/30 V DC										
Operation mode	Light switching										
Response time	≤ 20 ms										
Max. switching frequency ⁴⁾	25 Hz										
Time delays											
ON delay t _{ON}	0.1...10 s, can be connected separately										
OFF delay t _{OFF}	0.1...10 s, can be connected separately										
Connection type	Terminal chamber										
CE noise radiation	Level EN 50081-1 ("Residential standard")										
VDE protection class⁵⁾	□										
Circuit protection⁶⁾	A, C										
Enclosure rating	IP 67										
Ambient temperature T_A	Operation -13...131°F (-25...55°C)										
	Storage -40...158°F (-40...70°C)										
Approximate weight	4.2 oz (120 g)										
Housing material	Glass fiber reinforced ABS										

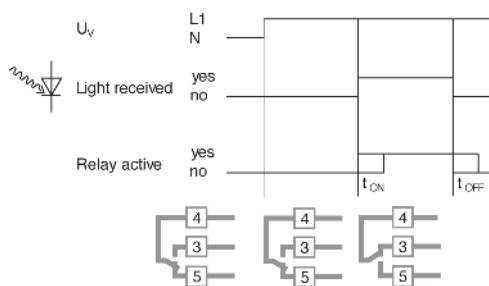
1) Average service life 100,000 h at T_A = 25°C
2) ± 10%

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_S connections reverse-polarity protected
C = Interference suppression

Time Delays

t = 0.1–10 s



Connection Diagram

