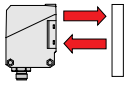


WT 260 Long

Proximity/Diffuse Sensors-Energetic



0.4...82.7 in (70...2100 mm)
sensing range



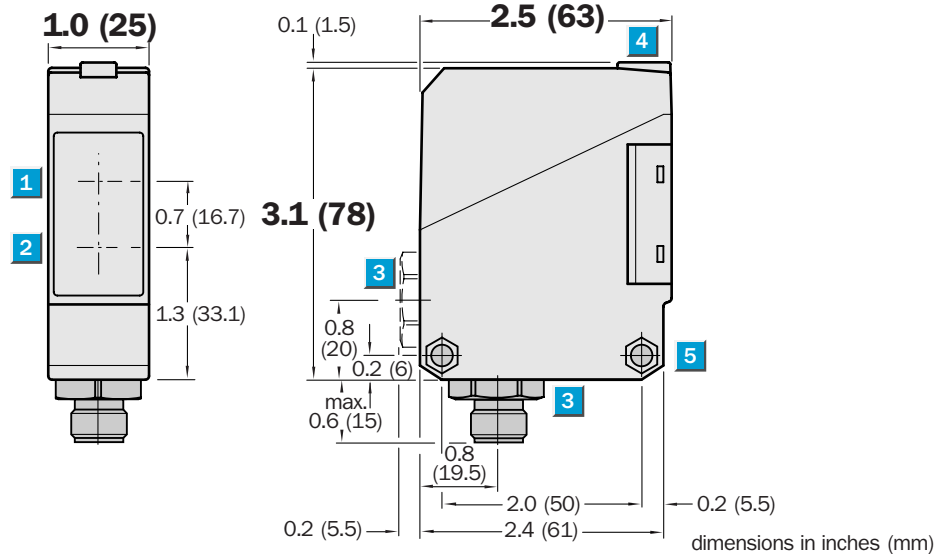
WT 260



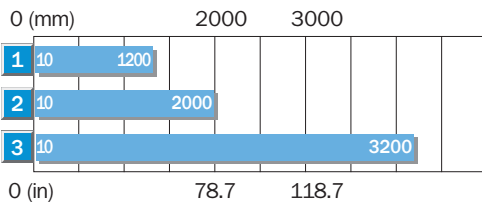
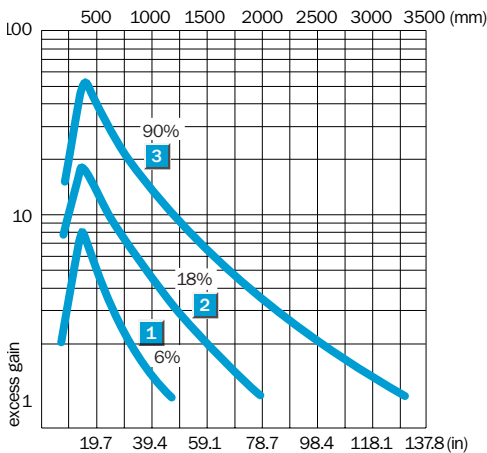
Highlights

- Rugged plastic housing
- Adjustable sensitivity
- Test input
- Terminal chamber for connection flexibility
- Easy mounting with included bracket

Dimensional Drawing

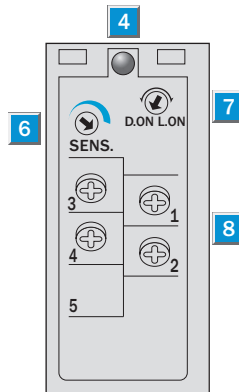


Excess Gain



Adjustments

All types



- Center of optical axis, receiver
- Center of optical axis, sender
- Cable entry gland 1/2" PF thread for cable diameters from 6 to 10 mm optionally at bottom or rear; or M12 equipment plug, bottom
- LED signal strength indicator, yellow
- Through hole Ø 5.2 mm on both sides for M5 hex nut
- Sensitivity adjustment
- Light/dark rotary switch
L.ON = light switching, D.ON = dark switching
- Terminals

Order Information

Type	Part no.
WT 260-F280	6 020 982
WT 260-F480	6 020 983
WT 260-E280	6 020 984
WT 260-E480	6 021 816

Accessories	page
Cables and connectors	909
Mounting brackets*	924, 935

* included with delivery

- Sensing range on black, 6% remission
- Sensing range on grey, 18% remission
- Sensing range on white, 90% remission

Technical Data		WT 260-	F280	F480	E280	E480				
Sensing range, adjustable¹⁾	0.4...126.0 in (10...3200 mm)									
Sensitivity	Adjustable, potentiometer 270°									
Light source²⁾, light type	LED, infrared light									
Light spot diameter	Approx. 3.1 in at 98.4 in (80 mm at 2500 mm)									
Angle of divergence	Approx. 1.8°									
Supply voltage V_s	10...30 V DC ³⁾									
Ripple ⁴⁾	≤ 5 V _{SS}									
Current consumption ⁵⁾	≤ 35 mA									
Switching outputs	PNP, open collector: Q									
	NPN, open collector: Q									
Output current I _A max.	100 mA									
Operation mode	Light/dark switching via switch									
Response time ⁶⁾	≤ 5 ms									
Max. switching frequency ⁷⁾	100 Hz									
Test input "TE" sender off	PNP: TE to + V _s									
	NPN: TE to 0 V									
Connection types	Terminal chamber									
	Plug, M12 4-pin									
VDE protection class⁸⁾	<input type="checkbox"/>									
Circuit protection⁹⁾	A, B, C, D									
Enclosure rating	IP 67/NEMA 6									
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									

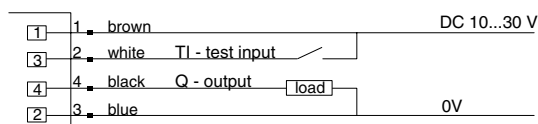
- 1) Object with 90% remission (based on standard white DIN 5033)
- 2) Average service life 100,000 h at T_A = 25°C
- 3) Limit values

- 4) Must be within V_s tolerances
- 5) Without load
- 6) With resistive load
- 7) With light/dark ratio 1:1
- 8) Reference voltage 50 V DC

- 9) A = V_s connections reverse-polarity protected
- B = Inputs/outputs reverse-polarity protected
- C = Interference suppression
- D = Outputs overcurrent and short-circuit protected

Connection Diagram

PNP Models



wire colors refer to standard cable, not included

NPN Models

