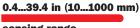
WT 12-2

Proximity/Diffuse Sensors-Energetic









sensing range



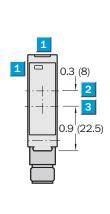


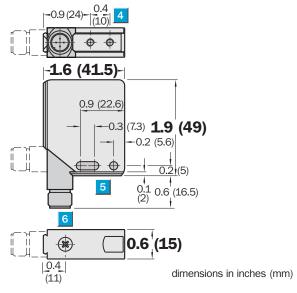
Highlights

- Rugged die cast metal housing
- Insensitive to ambient light
- Energetic proximity sensor with adjustable sensing range
- Crosstalk immunity
- Signal strength indicator
- Cable connections swivel 90° for easy installation



Dimensional Drawing





Excess Gain 100 1000 (mm) .00 10 excess gain 3.9 39.4 (in)





- LED signal strength indicator
- Center of optical axis, receiver
- Center of optical axis, sender
- M4 threaded mounting hole 4 mm deep
- Mounting holes Ø 4.2 mm
- Sensing range adjustment

() (mm)	200	40	00	60	00	80	00	10	00
1	10			500						
2	10							1	L000	
() (in)	7.9	15	5.7	23	3.6	31	.5	39	.4

0 (mm) 200		400	600	800	1000
1 10		500			
2 10				1	L000
0 (in)	7.9	15.7	23.6	31.5	39.4
Maxim	ıum ser	nsing rang	je		

Order Information					
Туре	Part no.				
WT 12-2P450	1 016 142				
WT 12-2P150	1 016 140				
WT 12-2N450	1 016 139				
WT 12-2N150	1 016 138				

Accessories	page			
Cables and connectors	909			
Mounting brackets	922			
Clamps*	921			

^{* 2} pieces included with delivery

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



Technical Data	WT :	12-2- P450	P150 N450	N150					
Sensing range, adjustable	0.439.4 in (101000 mm)								
Light source ¹ , light type	LED, red light								
Light spot diameter	1.2 in at 23.6 in (30 mm at 600 mm)								
Angle of divergence	Approx. 3°								
Supply voltage V _S	1030 V DC ²⁾								
Ripple ³⁾	≤ 5 V _{SS}								
Current consumption ⁴⁾	≤ 30 mA								
	≤ 40 mA								
Switching outputs	PNP, Q and \overline{Q}								
Switching outputs	NPN, Q and \overline{Q}								
Output ourront L may	≤ 100 mA								
Output current I _A max. Response time ⁵									
Max. switching frequency ⁶	≤ 330 μs 1500 Hz								
	2000 1.2		, , , , , , , , , , , , , , , , , , ,						
Connection types	Cable ⁷⁾ , 2 m								
	Plug, M12 4-pin								
VDE protection class ⁸⁾									
Circuit protection ⁹	A, B, C								
Enclosure rating	IP 67/NEMA 6								
Ambient temperature T _Δ	Operation -40140°F (-4060°C)								
	Storage -40167°F (-4075°C)								
Approximate weight	4.2 oz (120 g)								
	7.1 oz (200 g)								
Housing material	Die cast zinc								
Average service life 100,000 h at $T_A = 25^{\circ}\text{C}$		7) Do not bend belo	6) With light/dark ratio 1:1 7) Do not bend below 0°C 8) Reference voltage 50 V DC			9) A = V _S connections reverse-polarity protected B = Output Q and \overline{Q} short-circuit protected C = Interference pulse suppression.			

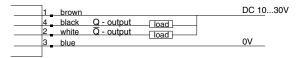
Connection Diagram

PNP Models

1 _ brown	DC 1030V
4 black Q - output load 2 white Q - output load	
3 blue	0V

wire colors refer to standard cable, not included with quick disconnect models

NPN Models





 ${\bf C} = {\bf Interference} \ {\bf pulse} \ {\bf suppression}$

