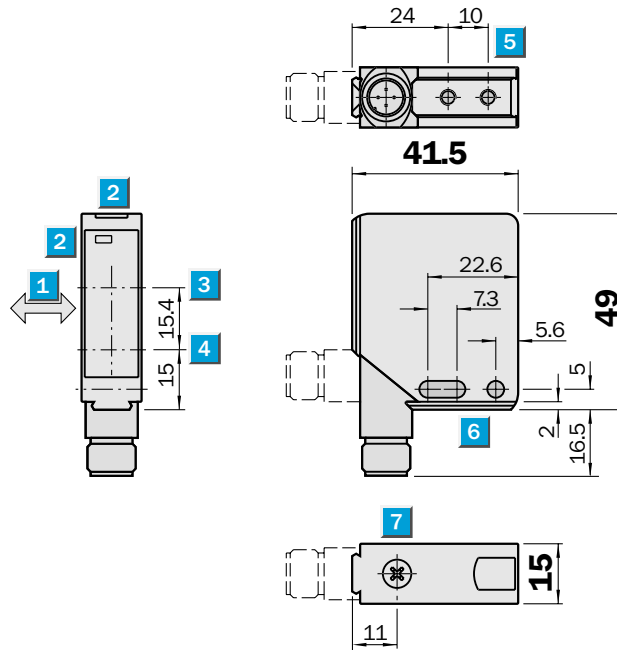

Scanning distance
35...100 mm

Photoelectric proximity switches

- Red light
- Insensitive to ambient light sources
- M 12 plug rotatable by 90°, or 2 m cable
- Adjustable foreground suppression and scanning distance

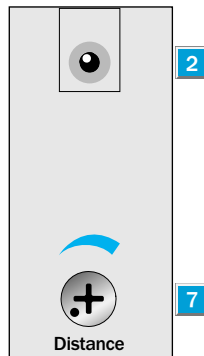
Dimensional drawing



Adjustments possible

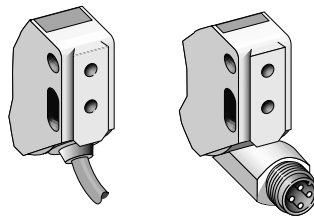
WT 12-2P 440	WT 12-2N 440
WT 12-2P 140	WT 12-2N 140

- 1 Standard direction of the material being scanned
- 2 LED signal strength indicator
- 3 Receiver's optical axis
- 4 Transmitter's optical axis
- 5 M 4 threaded mounting hole – 4 mm deep
- 6 Mounting holes \varnothing 4.2 mm
- 7 Scanning distance adjustment

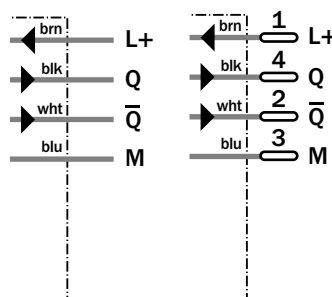


Connection types

WT 12-2P 140	WT 12-2P 440
WT 12-2N 140	WT 12-2N 440



4 x 0.25 mm ²	4-pin, M 12
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Accessories	page
Cable receptacles	496
Mounting brackets	510
Clamps*	510

* 2 pieces included with delivery

Technical data		WT 12-2	P 440	P 140	N 440	N 140					
Scanning distance	35...100 mm, adjustable										
Light source¹⁾, light type	LED, red light										
Light spot size	3 x 3 mm at 60 mm										
Supply voltage V_S	10...30 V DC ²⁾										
Ripple ³⁾	$\leq 5 V_{SS}$										
Current consumption ⁴⁾	≤ 30 mA										
	≤ 40 mA										
Switching outputs	PNP, Q and \bar{Q}										
	NPN, Q and \bar{Q}										
Output current I_A max.	≤ 100 mA										
Response time ⁵⁾	≤ 330 μ s										
Max. switching frequency ⁶⁾	1500 Hz										
Connection types	Cable ⁷⁾ , 2 m										
	4-pin, M 12 plug										
VDE protection class⁸⁾	<input type="checkbox"/>										
Circuit protection⁹⁾	A, B, C										
Enclosure rating	IP 67										
Ambient temperature T_A	Operation -40 °C...+60 °C										
	Storage -40 °C...+75 °C										
Weight	With plug: 120 g										
	With cable: 200 g										
Housing material	Zinc die-cast housing										

- 1) Average service life 100,000 h at $T_A = +25$ °C
- 2) Limit values
- 3) May not exceed or fall short of V_S tolerances

- 4) Without load
- 5) Signal transit time with resistive load
- 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 \bar{Q} short-circuit protected
- C = Interference pulse suppression

