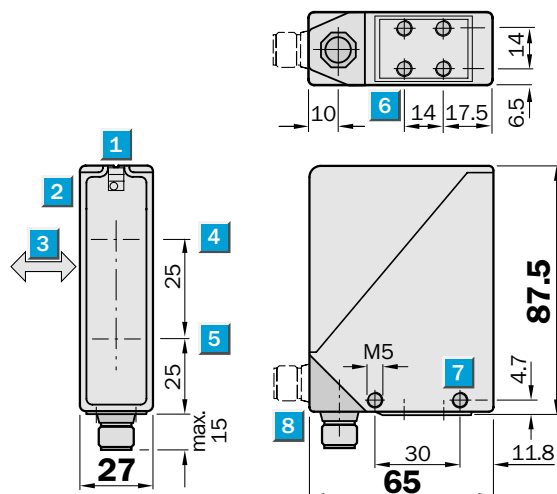


	Scanning distance 150...600 mm
	Scanning distance 300...2000 mm
Photoelectric reflex switches	

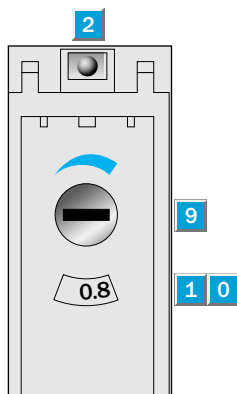
- Infrared light
- Adjustable background suppression
- Explosion protection EEx ia IIC T6
- Plug rotatable by 90°
- Terminal chamber

Dimensional drawing



Adjustments possible

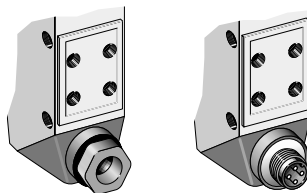
WT 24-X 2101
WT 24-X 4101
WT 24-X 4601



- 1 Alignment sight
- 2 LED signal strength indicator
- 3 Standard direction of the material being scanned
- 4 Centre of transmitter's optical axis
- 5 Centre of receiver's optical axis
- 6 M5 threaded mounting hole – 8 mm deep
- 7 M5 threaded mounting hole
- 8 PG 9 cable gland or M 12 plug, rotatable
- 9 Scanning distance adjustment
- 10 Scanning distance indicator

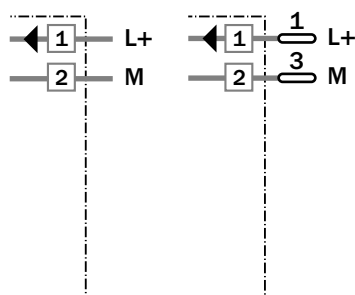
Connection types

WT 24-X 2101	WT 24-X 4101
	WT 24-X 4601



PG 9, terminals

4-pin, M 12



Accessories	page
Cable receptacles	496
Mounting brackets	510
Power supply units	564

Technical data		WT 24-	X 2101	X 4101	X 4601								
Scanning distance	300...2000 mm, adjustable												
	150...600 mm, adjustable												
Light source¹⁾, light type	LED, infrared light												
Supply voltage V_S²⁾	8.2 V DC (5...13.5 V) ³⁾												
Ripple ⁴⁾	0.4 V_{SS}												
Terminal capacitance	≤ 15 nF												
Terminal inductance	≤ 75 μ H												
Current consumption ⁵⁾													
Light beam unbroken	≥ 2.2 mA												
Light beam broken	≤ 1 mA												
Switching output	Control current dependent on switching state (to NAMUR EN 50227)												
Switching mode	Light-switching												
Response time ⁶⁾	≤ 10 ms												
Max. switching frequency ⁷⁾	50/s												
Connection types	Plug												
	Terminal connection												
Approval	PTB No. Ex97 D2034												
VDE protection class⁸⁾	□												
Circuit protection⁹⁾	A, C												
Enclosure rating	IP 65												
Ambient temperature T_A	Operation - 20 °C...+ 50 °C												
	Storage - 25 °C...+ 70 °C												
Weight	Approx. 330 g												
Housing material	Zinc die-cast housing												

1) Average service life 100,000 h at $T_A = +25\text{ °C}$

2) Supply with disconnecter device EN 2 Ex

3) Limit values

4) May not exceed or fall short of V_S tolerances

5) Without load

6) Signal transit time with resistive load

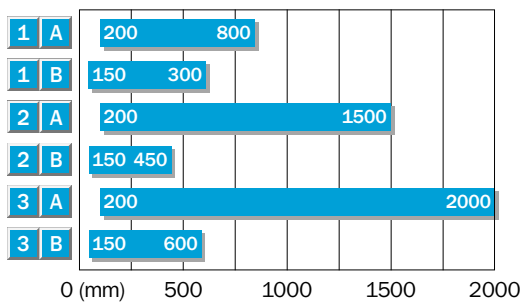
7) With light/dark ratio 1:1

8) Reference voltage 50 V DC

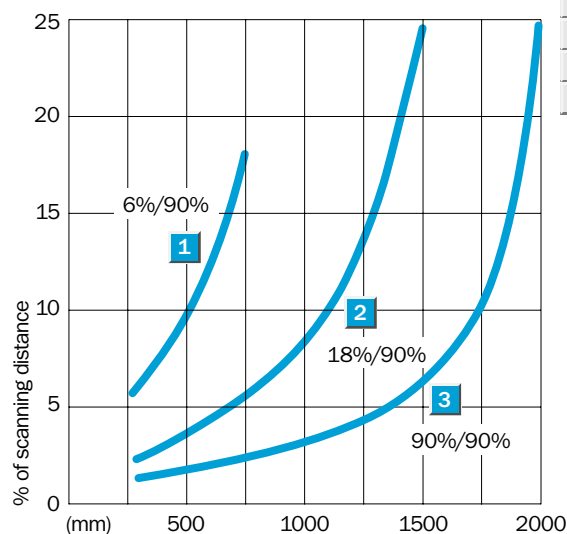
9) A = V_S connections reverse-polarity protected

C = Interference pulse suppression

Scanning distance



1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission
A	WT 24-X 2101/X 4101
B	WT 24-X 4601



Order information

Type	Part No.
WT 24-X 2101	1 011 974
WT 24-X 4101	1 011 973
WT 24-X 4601	1 013 120