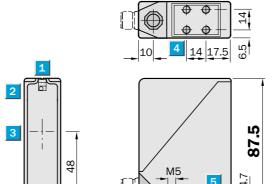


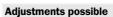
Through-beam photoelectric switches

- Red light
- **■** Explosion protection EEx ia IIC T6
- Plug rotatable by 90°
- Terminal chamber

## **Dimensional drawing**







WS/WE 24-X 2301 WS/WE 24-X 4301



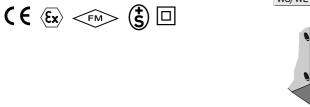
1 Alignment sight

30 **65** 

- 2 LED signal strength indicator on WE Power indicator on WS
  - Centre of optical axis
- 4 M 5 threaded mounting hole 8 mm deep
- M 5 threaded mounting hole
- 6 Cable gland, M 12 plug, rotatable
- 7 Sensitivity adjustment
- 8 Sensitivity indicator

## Connection types

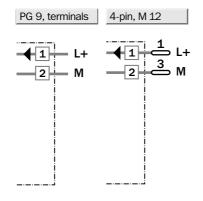
WS/WE 24-X 2301 WS/WE 24-X 4301







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



Technical data	WS/WE 24-	X 2301 X 4301			
Scanning range, max. typical	040 m				
Sensitivity	Adjustable				
Light source <sup>1)</sup> , light type	LED, red light				
Light spot diameter	Approx. 450 mm at 25 m				
Summly voltage V 2)	9.2.V.DO /F 4.2.E.W.3)				
Supply voltage V <sub>S</sub> <sup>2)</sup> Ripple <sup>4)</sup>	8.2 V DC (513.5 V) <sup>3)</sup>				
Rippie =/	0.4 V <sub>SS</sub>				
Terminal capacitance	≤ 15 nF				
Terminal inductance	≤ 150 µH				
Current consumption <sup>5)</sup>	,				
Sender permament	≥ 2.2 mA				
Receiver with light beam unbroken	≥ 2.2 mA				
Receiver with light beam broken	≤ 1 mA				
Switching output	Control current dependent on				
	switching state (to NAMUR EN 5022)	()			
Switching mode	Light-switching				
Response time <sup>6)</sup>	≤ 10 ms				
Max. switching frequency <sup>7)</sup>	50/s				
Connection types	Plug				
	Terminal connection		 		
Ammanial	DTD No. 5y07 D2025				
Approval VDE protection class <sup>8)</sup>	PTB No. Ex97 D2035				
Circuit protection class of	A, C				
Enclosure rating	IP 67				
Ambient temperature T <sub>A</sub>	Operation - 20 °C+ 40 °C				
	Storage −25 °C+70 °C				
Weight	Approx. 330 g				
Housing material	Zinc die-cast housing				
Average service life 100 000 h	3) Limit values	5) Without load	8) Peference	voltage 50 V DC	

1) Average service life 100,000 h at  $T_A = +25\,^{\circ}\text{C}$  2) Supply with disconnector device EN 2 Ex

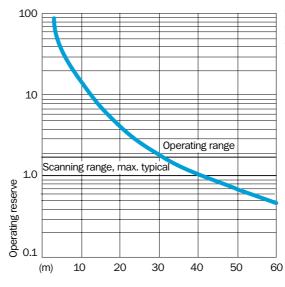
Operating range

Scanning range and operating reserve

- 3) Limit values
- 4) May not exceed or fall short of
- V<sub>S</sub> 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

0			30	40
(m)	10	20	30	40

Scanning range, max. typical



Order information				
Туре	Part No.			
WS/WE 24-X 2301	1 011 516			
WS/WE 24-X 4301	1 011 517			