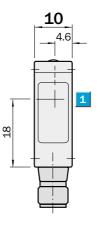
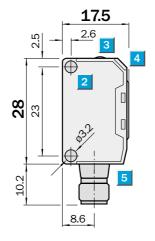


- Slotted masks 0.5 mm, 1 mm and 2 mm for detection of small parts or for positioning tasks
- Adjustable sensitivity
- Direct voltage supply 10...30 V DC

Dimensional drawing





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WS/WE150-P132 WS/WE150-N132 WS/WE150-P430 WS/WE150-N430



Centre of optical axis, sender (WS)
Centre of optical axis, receiver (WE)

- 2 Mounting holes Ø 3.2 mm
- Sensitivity adjustment 270° (WE only)
- LED indicator, red (WE only):

 Light received ≥ switching threshold
- M 8 plug 4-pin or cable

Connection types

WS/WE150-P132 WS/WE150-N132 WS/WE150-P430 WS/WE150-N430



2 x 0.18 mm²

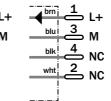


(**F SU**)

Accessories	page
Cable receptacles	496
Mounting brackets Type A*	510
Slotted masks	556

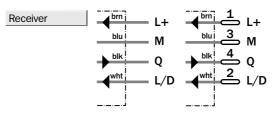
^{*} included with delivery





4-pin, M 8

4 x 0.18 mm² 4-pin, M 8



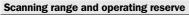
Technical data	WS/WE 150-	P 132 P 430	N 132 N 430		
Scanning range, max. typical	4.4 m			 	
Operating range	4 m				
Operating range with mask,					
Aperture width 2.0 mm	2.0 m				
Aperture width 1.0 mm	1.0 m				
Aperture width 0.5 mm	0.5 m				
Sensitivity, adjustable	Potentiometer, 270°				
Light source ¹⁾ , light type	LED, red light				
Light spot diameter	Approx. 400 mm at 4 mm				
Angle of dispersion of sender	Approx. 6°				
Angle of reception of receiver	Approx. 15°				
Supply voltage V _A	1030 V DC ²⁾				
Ripple ³⁾	± 10 %				
Current consumption ⁴⁾ sender	≤ 15 mA				
receiver	≤ 20 mA				
Switching outputs	PNP, open collector: Q				
v DataSheet/III com	NPN, open collector: Q				
Max. output current I _A	100 mA				
Switching mode ⁵⁾	Dark-/light-switching via control cable L/D				
-	$+ V_S = light$ -switching				
	0 V = dark-switching				
Response time ⁶⁾	≤ 0.5 ms				
Max. switching frequency ⁷⁾	1000/s				
Connection types cable	PVC, 2 m ⁸⁾				
sender WS	2 x 0.18 mm ² , Ø 3.5 mm				
receiver WE	4 x 0.18 mm ² , Ø 3.5 mm				
Plug	M 8 – 4-pin				
VDE protection class ⁹⁾					
Circuit protection 10)					
sender	A, B				
receiver	A, B, C, D				
Enclosure rating	IP 67				
Ambient temperature T _A	Operation - 25 °C+ 55 °C				
	Storage – 40 °C+ 70 °C				
Weight with cable 2 m	Sender: appr. 44 g, receiver: appr. 44 g				
with plug	Sender: appr. 7 g, receiver: appr. 7 g				
Housing material	Housing: ABS/optics: PC				

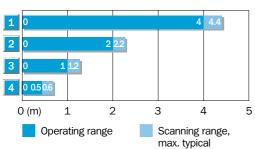
- at $T_A = +25$ °C
- 2) Limit values
- 3) May not exceed or fall short of V_S tolerances
- 4) Without load

- NPN: light-switching PNP: dark-switching
- 6) Signal transit time with resistive load

100

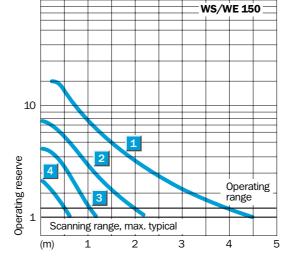
- 7) With light/dark ratio 1:1
- 8) Do not bend below 0 °C
- 10) $A = V_S$ connections reverse-polarity protected
 - B = Inputs and outputs reversepolarity protected
- $\mathsf{D} = \mathsf{Outputs} \ \mathsf{overcurrent} \ \mathsf{and} \ \mathsf{short}\text{-}$ circuit protected
- 11) Part no. includes both sender and receiver!

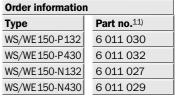






- Mask aperture width 2.0 mm Mask aperture width 1.0 mm
- Mask aperture width 0.5 mm





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