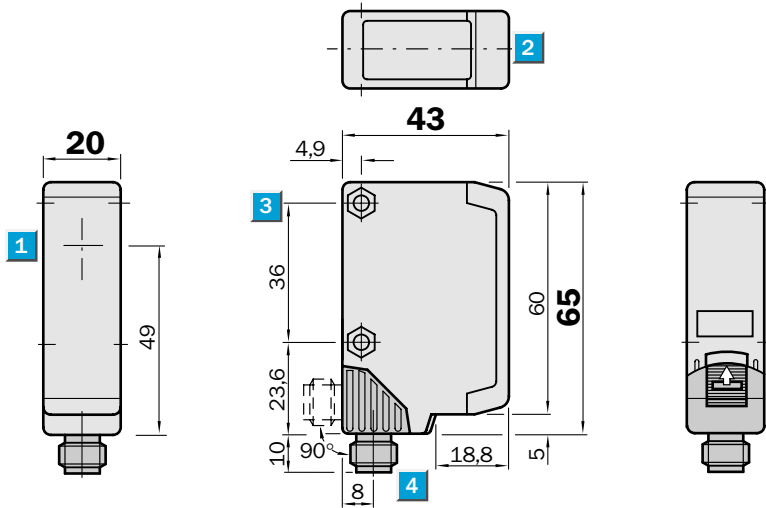




Dimensional drawing



- Robust, compact plastic housing
- Red light LED sender as an alignment aid
- M 12 plug rotatable by 90°

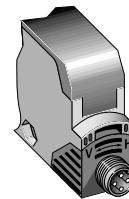
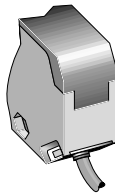


- 1 Centre of optical axis, sender (WS 250), receiver (WE 250)
- 2 Red LED signal strength indicator (only receiver WE 250)
- 3 Through borehole $\varnothing$ 4.2 mm, for M 4 hexagon nut on both sides
- 4 Connection cable or M 12 plug – 4-pin; plug position rotatable by 90° (V > H), V → vertical final position, H → horizontal final position; can be locked with slider

Connection types

WS/WE 250-P 132
WS/WE 250-N 132

WS/WE 250-P 430
WS/WE 250-N 430



3 x 0.18 m²

4 x 0.18 m²

4-pin, M 12

4-pin, M 12

Sender

WS 250-D 132

Receiver

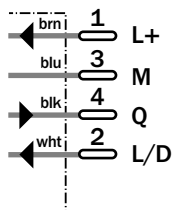
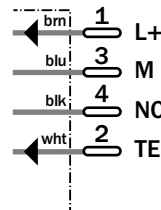
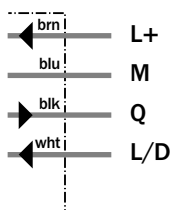
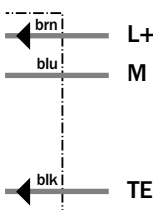
WE 250-P 132
WE 250-N 132

Sender

WS 250-D 430

Receiver

WE 250-P 430
WE 250-N 430



Accessories	page
Cable receptacles	496
Mounting brackets*	510

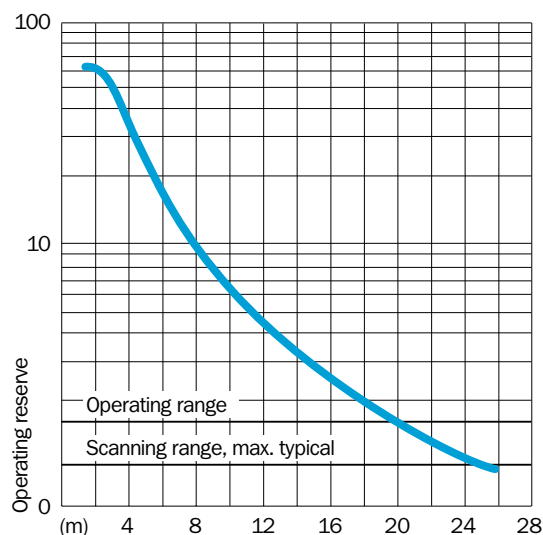
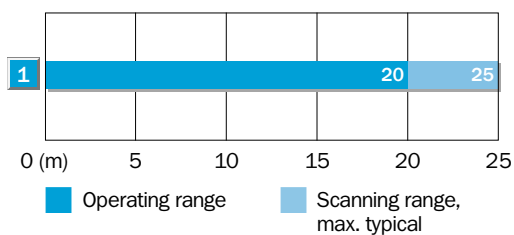
* included with delivery



Technical data		WS/WE 250-	P 132	P 430	N 132	N 430						
Scanning range , max. typical	25 m											
Operating range	20 m											
Light source¹⁾, light type	LED, visible red light											
Light spot diameter	Approx. 1.5 m at 20 m											
Angle of dispersion, sender	Approx. 4°											
Reception angle	Approx. 20°											
Supply voltage V_S	10...30 V DC ²⁾											
Ripple ³⁾	$\leq 5 V_{SS}$											
Current consumption ⁴⁾												
sender	≤ 20 mA											
receiver	≤ 35 mA											
Switching outputs	PNP, open collector: Q											
	NPN, open collector: Q											
Output current I_A max.	100 mA											
Light receiver, switching type	Light-/dark-switching via control wire:											
	+ V_S = light-switching											
	0 V = dark-switching											
Response time ⁵⁾	≤ 1 ms											
Max. switching frequency ⁶⁾	500/s											
Test input "TE" sender off	PNP, NPN; TE to 0 V											
Connection types	Cable PVC ⁷⁾ , 2 m											
sender WS	3 x 0.18 mm ² , $\varnothing$ 3.8 mm											
receiver WE	4 x 0.18 mm ² , $\varnothing$ 3.8 mm											
	Plug M 12, 4-pin, 90° rotatable											
VDE protection class⁸⁾	□											
Circuit protection⁹⁾												
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	Approx. 150 g											
with plug M 12, 4-pin	Approx. 70 g											
Housing material	Housing: ABS; optics: PC											

1) Average service life at $T_A = + 25$ °C; LED, red light 100,000 h
 2) Limit value
 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 short-circuit protected
 C = Interference pulse suppression
 D = Output overcurrent protected

Operating range and operating reserve



Order information

Type	Part no.
WS/WE 250-P 132	6 010 600
WS/WE 250-P 430	6 010 602
WS/WE 250-N 132	6 010 597
WS/WE 250-N 430	6 010 599

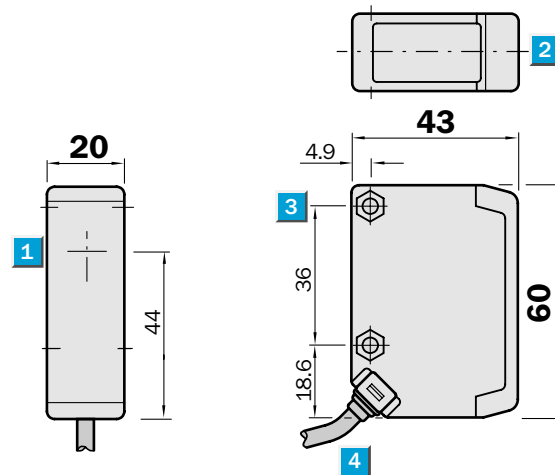


Scanning range
25 m

Through-beam photoelectric switches

- Robust, compact plastic housing
- Red light LED sender as an alignment aid
- Universal voltage, relay switching output, SPDT

Dimensional drawing

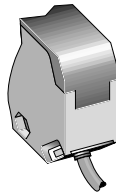


- 1 Centre of the optical axis, sender (WS 250), receiver (WE 250)
- 2 Red LED signal strength indicator (only receiver WE 250)
- 3 Through borehole $\varnothing$ 4.2 mm, for M 4 hexagon nut on both sides
- 4 Connection cable



Connection type

WS/WE 250 - S 132

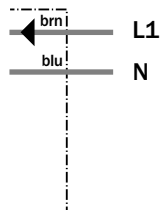


2 x 0.76 mm²

WS 260 - U 132



Sender



Accessories

page

Mounting brackets*

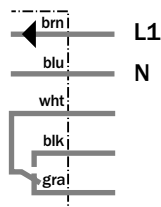
510

Receiver

5 x 0.76 mm²

WE 260 - S 132

* included with delivery



Technical data		WS/WE 250-	S 132												
Scanning range , max. typical	25 m														
Operating range	20 m														
Light source¹⁾, light type	LED, visible red light														
Light spot diameter	Approx. 1.5 m at 20 m														
Angle of dispersion, sender	Approx. 4°														
Reception angle	Approx. 20°														
Supply voltage V_S²⁾	12...240 V DC														
	24...240 V AC														
Power consumption															
sender	≤ 2 VA														
receiver	≤ 2 VA														
Switching outputs	Relay, SPDT, electrically isolated														
Switching current I_A max. ³⁾	3 A/240 V AC; 3 A/30 V DC														
Light receiver, switching type	Light-switching														
Response time	≤ 15 ms														
Max. switching frequency ⁴⁾	33/s														
Connection types	Cable PVC ⁵⁾ , 2 m														
sender WS	2 x 0.76 mm ² , Ø 6.3 mm														
receiver WE	5 x 0.76 mm ² , Ø 6.3 mm														
VDE protection class⁶⁾	□														
Circuit protection⁷⁾	A, C														
Enclosure rating	IP 67														
Ambient temperature T_A	Operation - 25 °C...+ 55 °C														
	Storage - 40 °C...+ 70 °C														
Weight	Approx. 290 g														
Housing material	Housing: ABS; optics: PC														

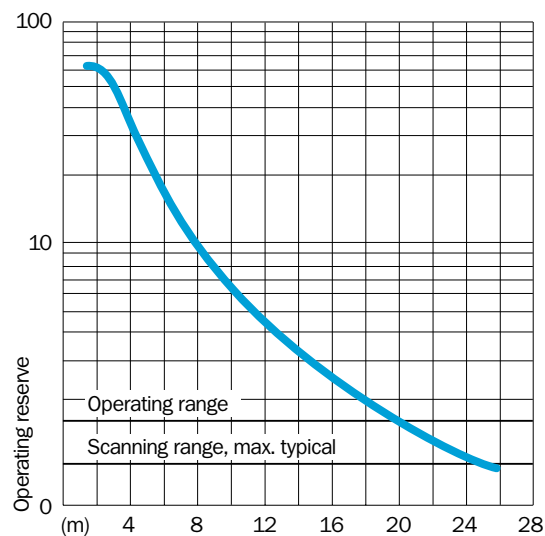
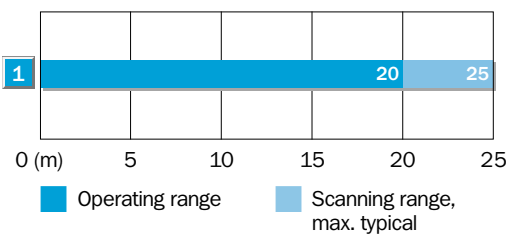
1) Average service life at $T_A = + 25 °C$;
LED, red light 100,000 h
2) ± 10%

3) Ensure spark extinguishing with inductive
or capacitive load
4) With light/dark ratio 1:1

5) Do not bend below 0 °C
6) Reference voltage 250 V UC

7) A = V_S connections reverse-polarity
protected
C = Interference pulse suppression

Operating range and operating reserve



Order information

Type	Part no.
WS/WE 250-S 132	6 010 603