

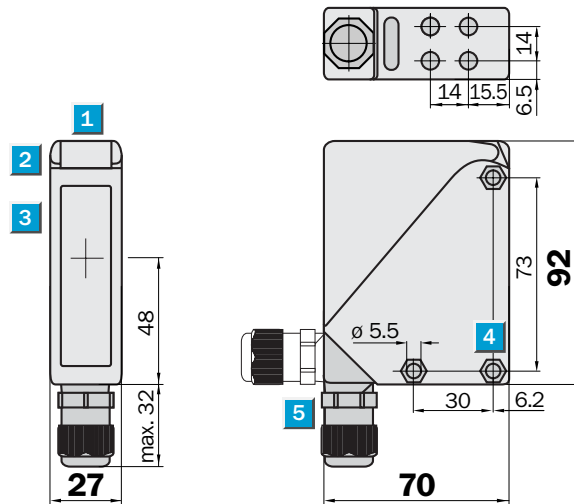


Scanning range
0 to 60 m

Through-beam photoelectric switch

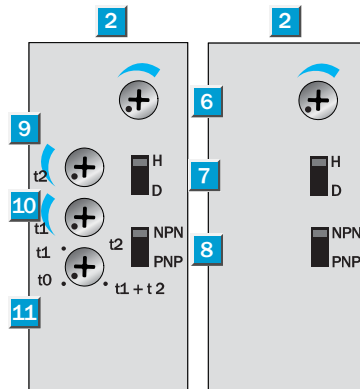
- Sturdy plastic housing
- High operating reserve in visible red light
- M 16 screw fixing or equipment plug rotatable by 90°
- Selectable time delay, optional

Dimension illustration



Setting options

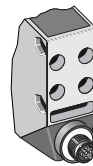
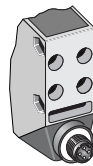
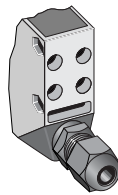
WS/WE 34-B 440	WS/WE 34-B 430
WS/WE 34-V 240	WS/WE 34-V 230
WS/WE 34-V 540	WS/WE 34-V 530



- 1 Alignment sight
- 2 LED signal strength indicator
- 3 Middle of optic axis
- 4 Mounting hole $\varnothing$ 5.5 mm, for M 5 hexagon nuts on both sides
- 5 M 16 screw fixing or plug rotatable by 90°
- 6 Sensitivity control
- 7 Light/dark selector
- 8 NPN/PNP selector
- 9 Time control t_2 = OFF-delay
- 10 Time control t_1 = ON-delay
- 11 Time delay selector switch

Connection type

WS/WE 34-V 230	WS/WE 34-B 430	WS/WE 34-V 530
WS/WE 34-V 240	WS/WE 34-B 440	WS/WE 34-V 540



M 16, terminals

4 pin, M 12

5 pin, M 12

Accessories

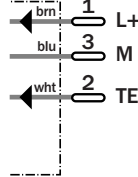
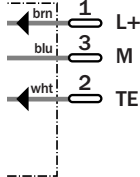
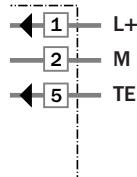
Connectors

Mounting systems

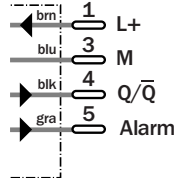
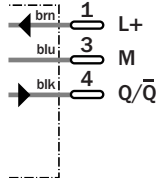
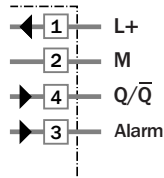
Special accessories

Weather hoods

Sender



Receiver



Technical data		WS/WE 34-	V 230	V 240	B 430	B 440	V 530	V 540				
Scanning range, typ. max.	0 to 60 m											
Sensitivity	Adjustable											
Light source ¹⁾, light type	LED; red light											
Light spot diameter	Approx. 700 mm at a distance of 50 m											
Angle of dispersion/reception	1°/2.5°											
Supply voltage V_S	10 to 30 V DC ²⁾											
Ripple ³⁾	< 5 V _{PP}											
Current consumption ⁴⁾												
Sender	≤ 50 mA											
Receiver	≤ 40 mA											
Switching output	PNP or NPN, Q or $\bar{Q}$											
Output current I_A max.	100 mA											
Response time ⁵⁾	≤ 500 μs											
Max. switching frequency ⁶⁾	1000/s											
VMA contamination signalling output	Alarm, PNP											
Time delay	Adjustable, 0.5 to 10 s											
Test input »TE«	Sender switched off											
Sender off	PNP or NPN: TE to 0 V											
Connection type	M 16 screw fixing											
	Plug											
VDE protection class ⁷⁾	□											
Circuit protection ⁸⁾	A, B, C											
Enclosure rating	IP 67											
Ambient temperature	Operation -40 °C to +60 °C											
	Storage -40 °C to +75 °											
Weight	Approx. 140 g											
Housing material	ABS											

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

²⁾ Limit values

³⁾ May not exceed or fall short of V_S
tolerances

⁴⁾ Without load

⁵⁾ Signal flight time for ohmic loads

⁶⁾ With light/dark ratio 1:1

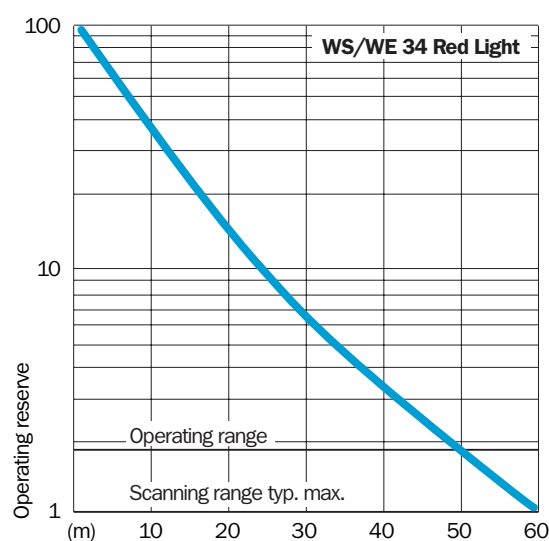
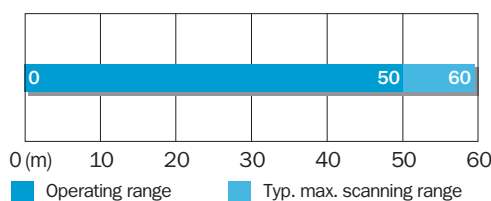
⁷⁾ Withstand voltage 50 V DC

⁸⁾ A = V_S connections reverse-polarity
protected

B = Outputs Q and $\bar{Q}$ short-circuit
protected

C = Interference pulse suppression

Operating range and operating reserve



Order information

Type	Order no.
WS/WE 34-V 230	1 019 253
WS/WE 34-V 240	1 019 251
WS/WE 34-B 430	1 019 254
WS/WE 34-B 440	1 019 255
WS/WE 34-V 530	1 019 256
WS/WE 34-V 540	1 019 252

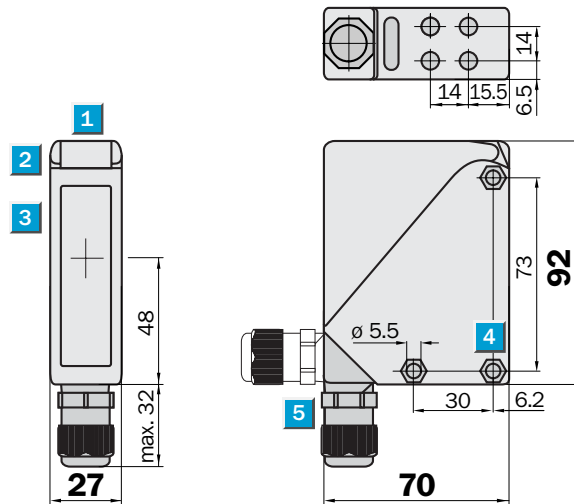


Scanning range
0 to 60 m

Through-beam photoelectric switch

- Sturdy plastic housing
- High operating reserve in visible red light
- M 16 screw fixing rotatable by 90°
- Selectable time delay, optional

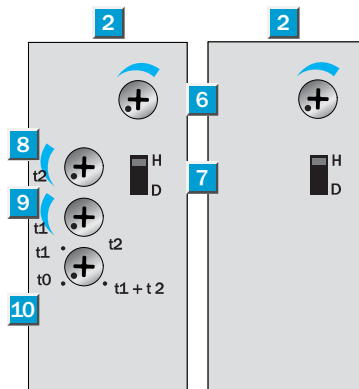
Dimension illustration



Setting options

WS/WE 34-R 240

WS/WE 34-R 230

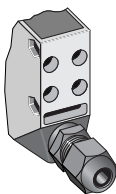


- 1 Alignment sight
- 2 LED signal strength indicator
- 3 Middle of optic axis
- 4 Mounting hole Ø 5.5 mm, for M 5 hexagon nuts on both sides
- 5 M 16 screw fixing rotatable by 90°
- 6 Sensitivity control
- 7 Light/dark selector
- 8 Time control t_2 = OFF-delay
- 9 Time control t_1 = ON-delay
- 10 Time delay selector switch

Connection type

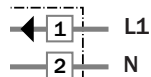
WS/WE 34-R 230

WS/WE 34-R 240

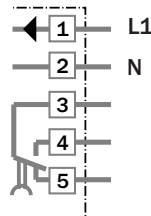


M 16, terminals

Sender



Receiver



Accessories

Connectors

Mounting systems

Special accessories

Weather hoods



Technical data		WS/WE 34-	R 230	R 240								
Scanning range, typ. max.	0 to 60 m											
Sensitivity	Adjustable											
Light source ¹⁾, light type	LED; red light											
Light spot diameter	Approx. 700 mm at a distance of 50 m											
Angle of dispersion/angle of reception	1°/2.5°											
Supply voltage V_S	12 to 240 V DC ²⁾ , 24 to 240 V AC ³⁾											
Power consumption	< 2 VA											
Switching output	Relay SPDT isolated ⁴⁾											
Max. switching voltage	250 V AC/120 V DC											
Max. switching current	4 A/240 V AC, 4 A/100 W DC											
Max. switching capacity	1000 VA AC/100 VA DC											
Response time	≤ 10 ms											
Max. switching frequency ⁵⁾	10/s											
Time delay	Adjustable, 0.5 to 10 s											
Connection type	M 16 screw fixing											
VDE protection class ⁶⁾	□											
Circuit protection ⁷⁾	A, C											
Enclosure rating	IP 67											
Ambient temperature	Operation -40 °C to +60 °C											
	Storage -40 °C to +75 °C											
Weight	Approx. 140 g											
Housing material	ABS											

¹⁾ Average service life 100,000 h
at T_A = +25 °C

²⁾ Limit values

³⁾ ± 10 %

⁴⁾ Provide suitable spark suppression for
inductive or capacitive loads

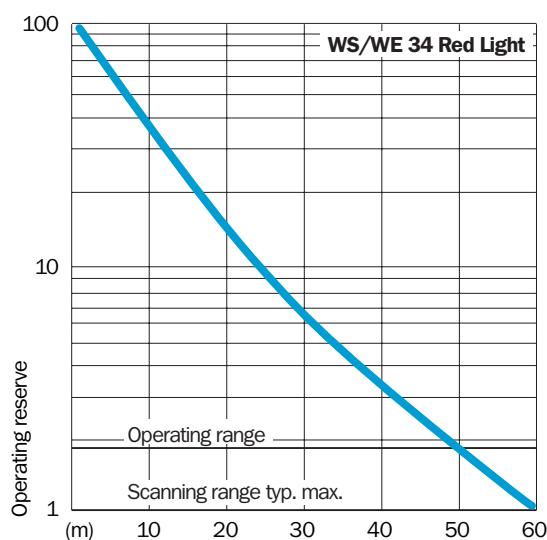
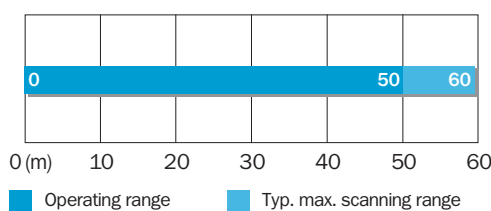
⁵⁾ With light/dark ratio 1:1

⁶⁾ Withstand voltage 250 V UC

⁷⁾ A = V_S connections reverse-polarity
protected

C = Interference pulse suppression

Operating range and operating reserve



Order information

Type	Order no.
WS/WE 34-R 230	1 019 257
WS/WE 34-R 240	1 019 258