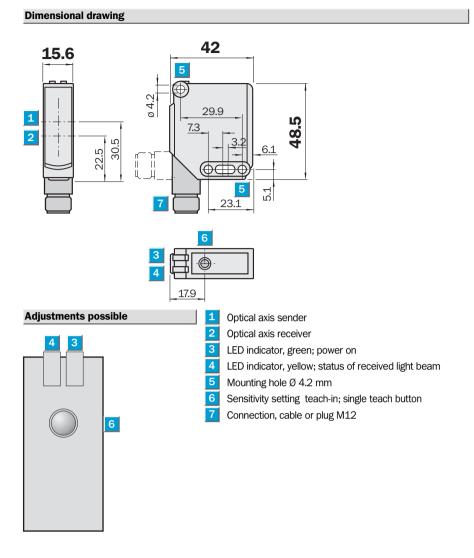


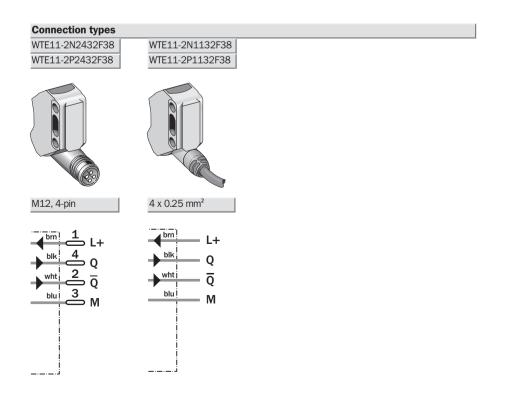
- Sensitivity adjustable via Teach-in, single button
- Sturdy plastic housing
- Dovetail mounting
- M12 plug rotatable or cable











	WTE11-2	N1132 N2 F38 F3					
Scanning distance max. typ.	40 1.000 mm ¹⁾			,			
Operating distance	40 600 mm ¹⁾						
Adjustment of operating distance	Teach-in; single teach button						
Light source, light type	LED, red light, 633 nm ²⁾						
Light spot diameter	Ø 90 mm at 600 mm distance						
Supply voltage V _s	10 30 V DC ³⁾						
Residual ripple	≤ 5 V _{pp} ⁴⁾						
Current consumption	≤ 40 mA ⁵⁾						
<u> </u>	≤ 30 mA ⁵⁾						
Switching outputs	NPN antivalent						
3	PNP antivalent						
Signal voltage PNP HIGH / LOW	> V _S - 2.5 V / approx. 0 V						
Signal voltage NPN HIGH / LOW	Approx. V_S / < 2.5 V						
Output current I _a max	100 mA						
Response time	≤ 2.5 ms ⁶⁾						
Switching frequency	200 Hz ⁷⁾						
Connection type	Cable, PVC, 2 m ⁸⁾						
	Connector, M12, 4-pin						
VDE protection class	⁹⁾						
Circuit protection	V _S connections reverse-polarity protected/ Outputs short-circuit protected/ Interference suppression						
Enclosure rating	IP 66, IP 67						
Ambient temperature operation	−30 °C +60 ° C						
Ambient temperature storage	−40 °C +75 ° C						
Weight	Approx. 200 g						
	Approx. 120 g						
Housing material	ABS, PMMA						
1) Object with 90 % remission (based on	3) Limit values, operation in short-circuit	5) Without load		9) Refere	ence voltag	e 50 V DC	

Teach-in-function

Programming via Teach-in button.

■ Simple programming:

Position object in the beam and push the button:

LED confirms the Teach-in procedure.

- Teach-in value can be stored.
- Two operating modes:

Default setting: short Teach-in time (< 8 s);

for standard applications;

approx. double reserve via switching threshold;

LED lights continuously.

Precise setting: long Teach-in time (> 8 s);

for precise applications;

small switching hysterese;

LED blinks.

Order informationen					
Туре	Order no.				
WTE11-2N1132F38	7295139				
WTE11-2N2432F38	7295135				
WTE11-2P1132F38	7295141				
WTE11-2P2432F38	7295148				

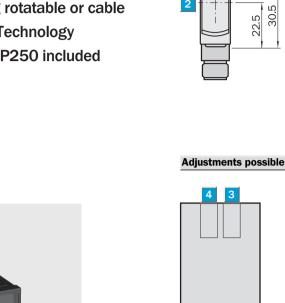
object with 90 % remission (based standard white to DIN 5033) 2) Average service life 100,000 h at $T_A = +25 \, ^{\circ}\text{C}$

LITTIC values, operation in short-circ protected network max. 8 A May not exceed or fall short of $\rm V_{S}$ tolerances

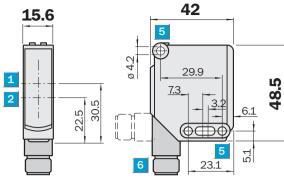
without load
Signal transit time with resistive load
With light/dark ratio 1:1
Do not bend below 0 °C

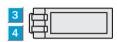


- Sturdy plastic housing
- **Dovetail mounting**
- M12 plug rotatable or cable
- **PinPoint Technology**
- Reflector P250 included



Dimensional drawing



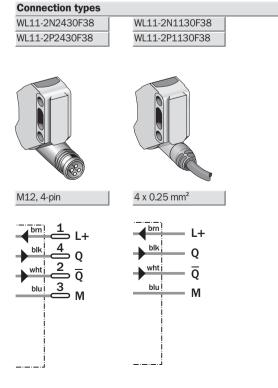


- Optical axis sender
- Optical axis receiver
- LED indicator, green; power on
- LED indicator, yellow; status of received light beam
- Mounting hole Ø 4.2 mm
- Connection, cable or plug M12







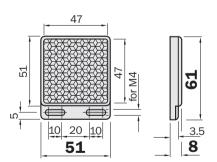


	WL11-2	N113 F38	0 N243 F38	0 P1130 F38	P2430 F38			
Scanning range max. typ.	0.15 7 m						,	
Scanning range, recommended	0.15 5 m							
Relating to	Reflector P250							
Light source, light type	LED, red light, 640 nm ¹⁾							
Light spot diameter	Approx. 50 mm at 3 m distance							
Angle of dispersion	Approx. 2.2°							
Polarisation filter	✓							
Supply voltage V _s	10 30 V DC ²⁾							
Residual ripple	≤ 5 V _{pp} ³⁾							
Current consumption	≤ 40 mA ⁴⁾							
	≤ 30 mA ⁴⁾							
Switching outputs	NPN antivalent							
	PNP antivalent		<u>'</u>					
Signal voltage PNP HIGH / LOW	> V _S - 2.5 V / approx. 0 V							
Signal voltage NPN HIGH / LOW	Approx. V _S / < 2.5 V							
Output current I _a max	100 mA							
Response time	2.5 ms ⁵⁾							
Switching frequency	200 Hz ⁶⁾							
Connection type	Cable, PVC, 2 m ⁷⁾							
	Connector, M12, 4-pin							
VDE protection class	□ ⁸⁾							
Circuit protection	V _S connections reverse-polarity protected/ Outputs short-circuit protected/ Interference suppression							
Enclosure rating	IP 66, IP 67, IP 69K							
Ambient temperature operation	−30 °C +60 °C							
Ambient temperature storage	−40 °C +75 °C							
Weight	Approx. 200 g							
	Approx. 120 g							
Housing material	ABS, PMMA							
$^{1)}$ Average service life 100,000 h at $\rm T_A = +25^{\circ}C$ $^{2)}$ Limit values, operation in short-circuit protected network max. 8 A	tolerances	With lig Do not Referen	bend bel	low 0 °C	DC			

Included reflector:

Reflector 47 x 47 mm²

Type P250



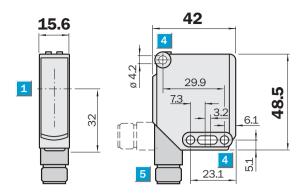
Order informationen					
Туре	Order no.				
WL11-2N1130F38	7295154				
WL11-2N2430F38	7295145				
WL11-2P1130F38	7295151				
WL11-2P2430F38	7295157				

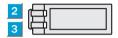


- Sturdy plastic housing
- Dovetail mounting
- M12 plug rotatable or cable



Dimensional drawing





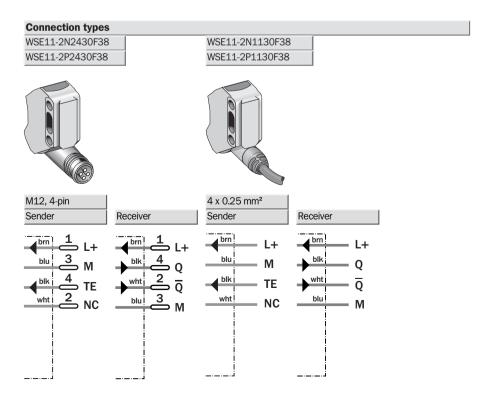
Adjustments possible

- Center of optical axis
- 2 LED indicator, green; power on
- 3 LED indicator, yellow; status of received light beam
- Mounting hole Ø 4.2 mm
- 5 Connection, cable or plug M12









	WSE11-2	N1130 F38	N2430 F38	P1130 F38	P2430 F38					
Scanning range max. typ.	0 20 m									
Scanning range, recommended	0 15 m									
Light source, light type	LED, red light, 633 nm ¹⁾									
Light spot diameter	Ø 220 mm at 15 m distance									-
Angle of dispersion	Approx. 1.5°									
Supply voltage V _s	10 30 V DC ²⁾									
Residual ripple	≤ 5 V _{pp} ³⁾									
Current consumption	WS ≤ 25 mA ⁴)									
	WE ≤ 20 mA ⁴⁾									
Switching outputs	NPN antivalent									
-	PNP antivalent									
Signal voltage PNP HIGH / LOW	> V _S - 2.5 V / approx. 0 V									
Signal voltage NPN HIGH / LOW	Approx. V _S / < 2.5 V			$\overline{}$						
Output current I _a max	100 mA									
Response time	2.5 ms ⁵⁾									
Switching frequency	200 Hz ⁶⁾									
Test input sender off	TE to 0 V									-
Connection type	Cable, PVC, 2 m ⁷⁾									
	Connector, M12, 4-pin									
VDE protection class	□ ⁸⁾									
Circuit protection	V _S connections reverse-polarity protected/ Outputs short-circuit protected/ Interference suppression									
Enclosure rating	IP 66, IP 67, IP 69K									
Ambient temperature operation	−30 °C +60 °C									
Ambient temperature storage	−40 °C +75 °C									
Weight	Approx. 200 g									
	Approx. 120 g									
Housing material	ABS, PMMA									
1) Average convice life 100,000 h at	protected network may 9 A	1) Mithout				7	١	hand hal	0.00	

 $^{^{1)}}$ Average service life 100,000 h at $^{\rm T}{\rm A}=+25\,^{\rm o}{\rm C}$ Limit values, operation in short-circuit

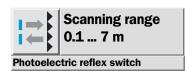
Order informationen					
Туре	Order no.				
WSE11-2N1130F38	7295163				
WSE11-2N2430F38	7295160				
WSE11-2P1130F38	7295176				
WSE11-2P2430F38	7295167				

protected network max. 8 A $^{\rm 3)}$ May not exceed or fall short of $\rm V_{\rm S}$ tolerances

⁴⁾ Without load
5) Signal transit time with resistive load
6) With light/dark ratio 1:1

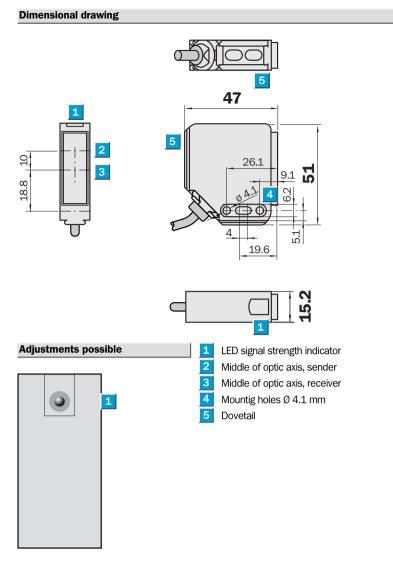
Do not bend below 0 °C
 Reference voltage 50 V DC

Photoelectric reflex switch, WL11, red light - UC

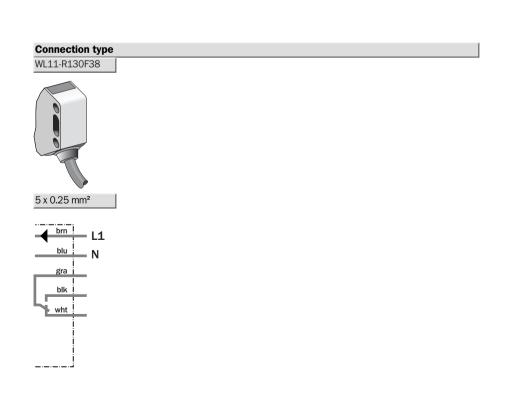


- Red light
- Polarisation filter
 allowing detection of objects
 with reflective surfaces
- CE-emitted interference
 EN 61000-6-3 ("Residential and Industrial Areas")
- ECOLAB material resistance tests
- Reflector P250 included







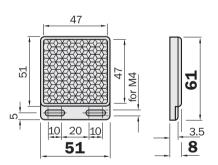


Technical specifications	WL11-	R130
Scanning range typ. max.	0.1 7 m	
Scanning range, recommended	0.1 5 m	
Relating to	Reflector P250	
Light source, light type	LED, Red light ¹⁾	
Light spot diameter	Approx. 80 mm at 3 m distance	
Angle of dispersion	2 °	
Polarisation filter	1	
Supply voltage V _s	24 240 V DC / 24 240 V AC ²⁾	
Switching outputs	Relay 1 x c/o, electrically isolated	
Max. switching voltage	AC 250 V AC / 120 V DC	
Switching current max.	3 A/250 V AC; 3A/30 V DC ³⁾	
Max. switching power	750 VA AC / 30 V DC	
Response time	≤ 25 ms ⁴⁾	
Switching frequency	20 Hz ⁵⁾	
Connection type	Cable, 2 m ⁶⁾	
VDE protection class	□ ⁷⁾	
Circuit protection	V _s connections reverse-polarity protected / Interference suppression	
Enclosure rating	IP 65	
Ambient temperature operation	-25 °C +55 °C	
Ambient temperature storage	-40 °C +70 °C	
Weight	Approx. 200 g	
Housing material	ABS, PMMA	
$^{1)}$ Average service life 100,000 h at Ta = +25 °C	²⁾ Tolerance: +10 %, -20 % ³⁾ Usage category to EN 60947-1,	AC-15, DC-13 AC-15, DC-13 Signal transit time with resistive load AC-15, DC-13 AC-15, DC-1

Included reflector:

Reflector 47 x 47 mm²

Type P250



Order information					
Туре	Order No.				
WL11-R130F38	7295179				