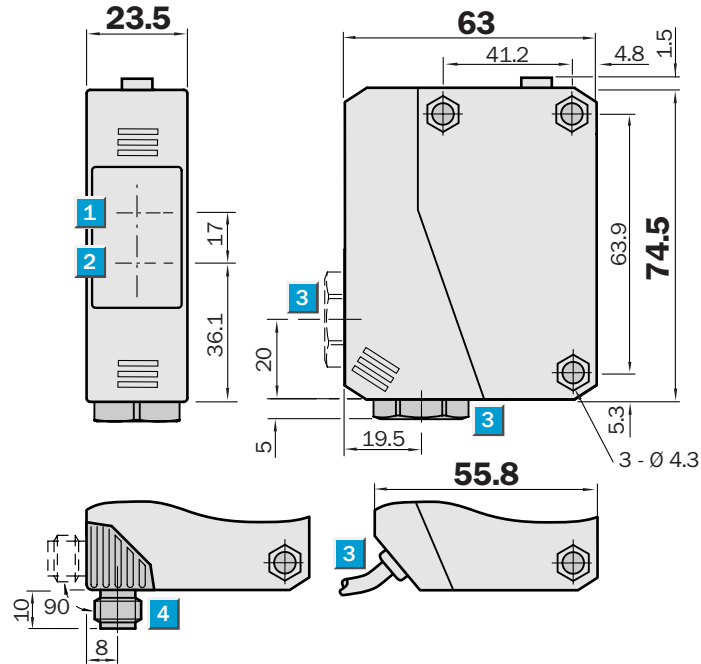


	Scanning distance
	10 ... 1700 mm
Photoelectric proximity switches	

- Red light
- Terminal chamber or cable connection
- M12 plug rotatable by 90°
- Mounting brackets (1.4301) included with delivery

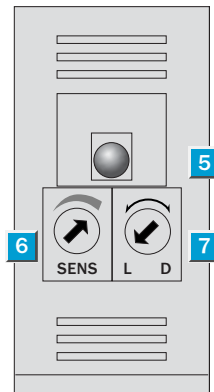


Dimensional drawing



Adjustments possible

All types

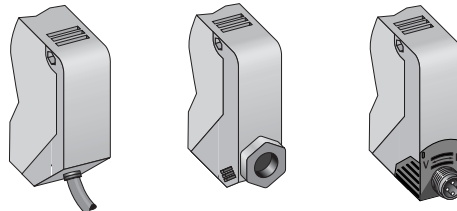


- 1 Centre of optical axis – receiver
- 2 Centre of optical axis – sender
- 3 Cable entry gland 1/2" PF for cable diameter 6 to 10 mm or 3-core cable Ø 3.8 mm
- 4 Plug M12, 4-pin, rotatable by 90°
- 5 Signal strength indicator
- 6 Sensitivity adjustment
- 7 Light/dark rotary switch
L = light-switching, D = dark-switching



Connection type

WT280-P132	WT280-P230	WT280-P430
WT280-N132	WT280-N230	WT280-N430



Accessories

Cables and connectors
Mounting systems *)

*) Mounting brackets included with delivery

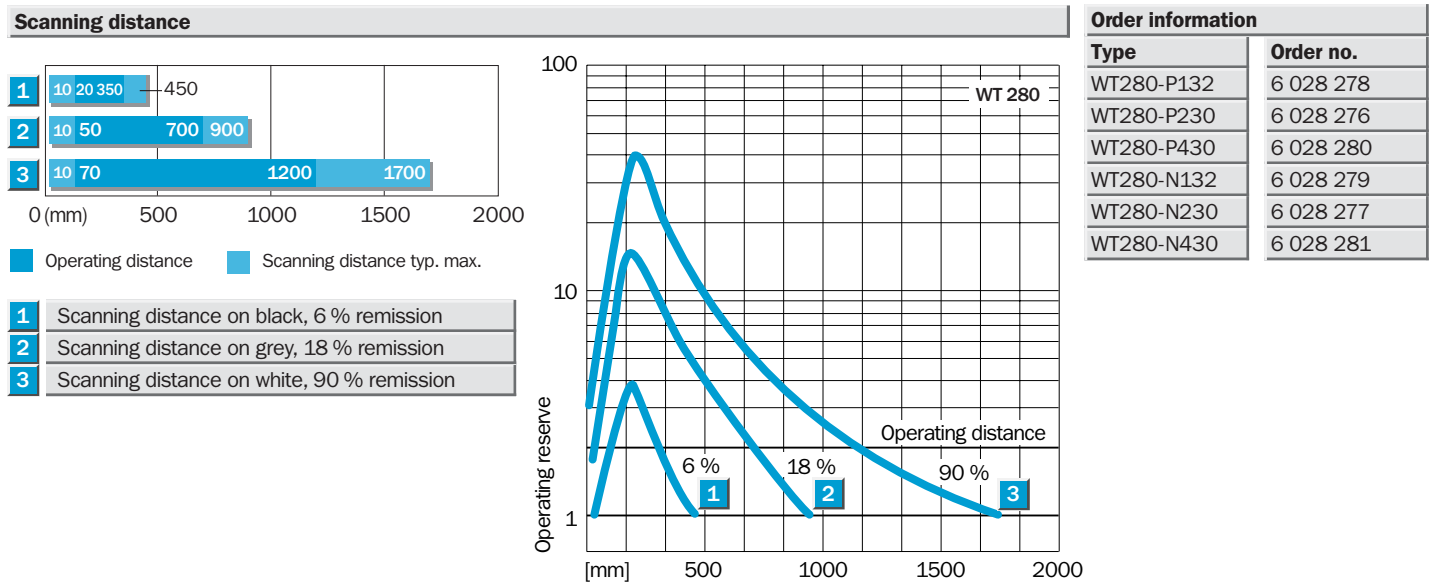
3 x 0.18 mm ²	Terminals	4-pin, M12

Technical data		WT 280-	P 132	P 230	P 430	N 132	N 230	N 430				
Scanning distance, max. typ.	10 mm ... 1700 mm, adjustable ¹⁾											
Operating distance	10 mm ... 1200 mm, adjustable ¹⁾											
Light source ²⁾, light type	LED, red light											
Light spot diameter	Approx. 38 mm at 1.3 m											
Angle of dispersion, sender	Approx. 1°											
Supply voltage V_S	10 ... 30 V DC ³⁾											
Residual ripple ⁴⁾	$\leq 5 V_{PP}$											
Current consumption ⁵⁾	$\leq 30 \text{ mA}$											
Switching outputs	PNP, open collector: Q											
	NPN, open collector: Q											
Output current I_A max.	100 mA											
Light receiver, switching mode	Light-/dark-switching by rotary switch											
Response time ⁶⁾	$\leq 0.5 \text{ ms}$											
Max. switching frequency ⁷⁾	1000/s											
Connection types	Cable ⁸⁾ , 2 m											
	Terminal chamber											
	M12 plug, 4-pin											
VDE protection class	⚡ (to VDE 0106)											
Circuit protection ⁹⁾	A, B, C, D											
Enclosure rating	IP 66											
Ambient temperature	Operation $-25^\circ\text{C} \dots +55^\circ\text{C}$											
	Storage $-40^\circ\text{C} \dots +70^\circ\text{C}$											
Weight	Approx. 150 g											
Housing material	Housing: ABS; optics: PMMA											

- 1) Object with 90 % remission (based on standard white DIN 5033)
 2) Average service life 100,000 h at $T_A = +25^\circ\text{C}$
 3) Limit values

- 4) May not exceed or fall short of V_S tolerances
 5) Without load
 6) Signal transit time with resistive load
 7) With light/dark ratio 1:1
 8) Do not bend below 0°C

- 9) A = V_S connections reverse-polarity protected
 B = Inputs/outputs reverse-polarity protected
 C = Interference pulse suppression
 D = Outputs overcurrent and short-circuit protected

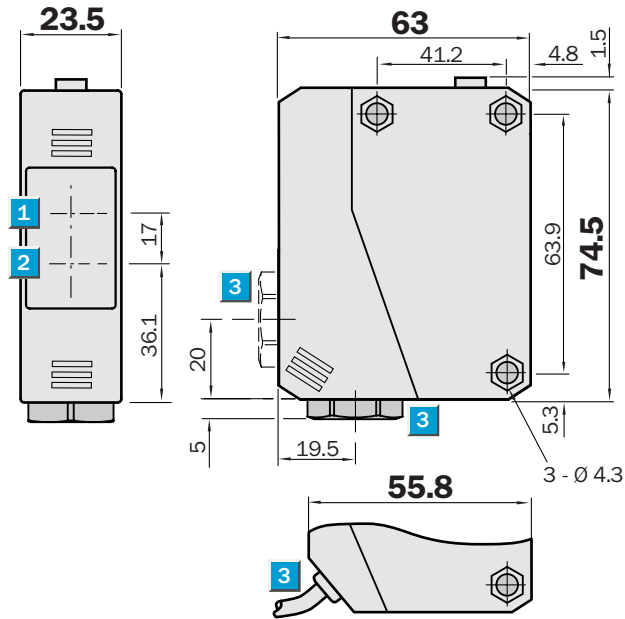


	Scanning distance
	10 ... 1700 mm
Photoelectric proximity switches	

- Red light
- Terminal chamber or cable connection
- Mounting brackets (1.4301) included with delivery
- CE generic emission standard EN 61000-6-3 ("Residential and Commercial Areas")



Dimensional drawing

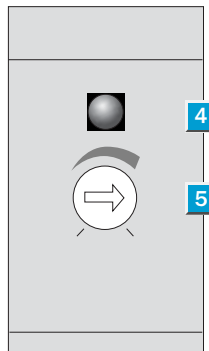


Adjustments possible

WT280-S132

WT280-S230

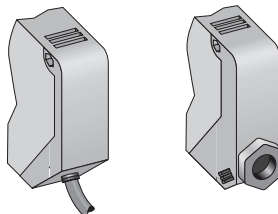
- 1 Centre of optical axis – receiver
- 2 Centre of optical axis – sender
- 3 Cable entry gland 1/2" PF for cable diameter 6 to 10 mm or 5-core cable Ø 6.3 mm
- 4 Signal strength indicator
- 5 Sensitivity adjustment



Connection type

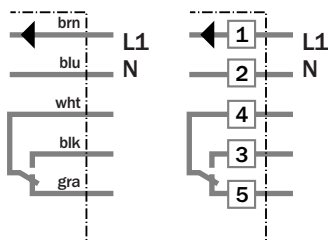
WT280-S132

WT280-S230



5 x 0.76 mm²

Terminals



Accessories

Cables and connectors

Mounting systems *)

*) Mounting brackets included with delivery

Technical data		WT 280-	S 132	S 230								
Scanning distance , max. typ.	10 mm ... 1700 mm, adjustable ¹⁾											
Operating distance	10 mm ... 1200 mm, adjustable ¹⁾											
Light source ²⁾, light type	LED, red light											
Light spot diameter	Approx. 38 mm at 1.3 m											
Angle of dispersion, sender	Approx. 1°											
Supply voltage V_S ³⁾	24 ... 240 V DC/24 ... 240 V AC											
Current consumption ⁴⁾	≤ 5 VA											
Switching outputs	Relay 1 x u, galv. separated											
Max. switching current	3 A/240 V AC; 3 A/30 V DC											
Light receiver	Light-switching											
Response time	≤ 20 ms											
Max. switching frequency ⁵⁾	25/s											
Connection types	Cable ⁶⁾ , 2 m											
	Terminal chamber											
VDE protection class ⁷⁾	☐											
Circuit protection ⁸⁾	A, C											
Enclosure rating	IP 66											
Ambient temperature	Operation -25 °C ... +55 °C											
	Storage -40 °C ... +70 °C											
Weight	Approx. 150 g											
Housing material	Housing: ABS; optics: PMMA											

1) Object with 90 % remission (based on standard white DIN 5033)

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

3) ± 10 %

4) Provide suitable spark suppression for inductive and capacitive loads

5) With light/dark ratio 1:1

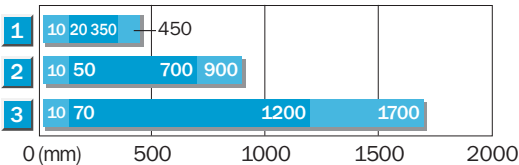
6) Do not bend below 0 °C

7) Reference voltage 250 V UC

8) A = V_S connections reverse-polarity protected

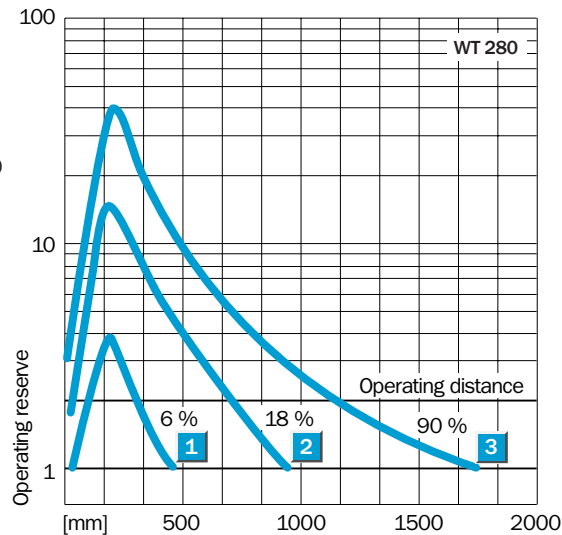
C = Interference pulse suppression

Scanning distance



■ Operating distance ■ Scanning distance typ. max.

- 1 Scanning distance on black, 6 % remission
- 2 Scanning distance on grey, 18 % remission
- 3 Scanning distance on white, 90 % remission



Order information

Type	Order no.
WT280-S132	6 027 482
WT280-S230	6 027 480