

Technical specifications		WT150-	N162	N460	P162	P460								
Scanning distance typ. max.	2 ... 100 mm ¹⁾													
Adjustment of operating distance	Potentiometer, 5 revolutions													
Light source, light type	LED, Red light ²⁾													
Light spot diameter	Approx. 4 mm at 40 mm distance													
Angle of dispersion	Ca. 5 °													
Supply voltage V_s	DC 10 ... 30 V ³⁾													
Ripple	± 10 % ⁴⁾													
Power consumption	≤ 20 mA ⁵⁾													
Switching outputs	NPN: open collector: Q													
	PNP: open collector: Q													
Switching mode	Light-/dark-switching via L/D control cable +V _s = light-switching 0 V = dark-switching ⁶⁾													
Output current I _a max	≤ 100 mA													
Response time	≤ 0.5 ms ⁷⁾													
Switching frequency	1,000 Hz ⁸⁾													
Connection type	Cable, PVC, 2 m ⁹⁾													
	Connector, M8, 4-pin													
VDE protection class	□ ¹⁰⁾													
Circuit protection	V _s connections reverse-polarity protected / In-/outputs short-circuit protected / Interference suppression / Outputs overcurrent and short-circuit protected													
Enclosure rating	IP 67													
Ambient temperature operation	-25 °C ... +55 °C													
Ambient temperature storage	-40 °C ... +75 °C													
Weight	Ca. 44 g													
	Ca. 7 g													
Housing material	ABS, PC													
Included with delivery	Mounting bracket BEF-W150-A													

¹⁾ Object with 90 % remission (based on standard white to DIN 5033). Scanning distance control set to MAX

²⁾ Average service life 100,000 h

at T_a = +25 °C

³⁾ Limit values

⁴⁾ May not exceed or fall short of V_s tolerances

⁵⁾ Without load

⁶⁾ Control wire must be connected

⁷⁾ Signal transit time with resistive load

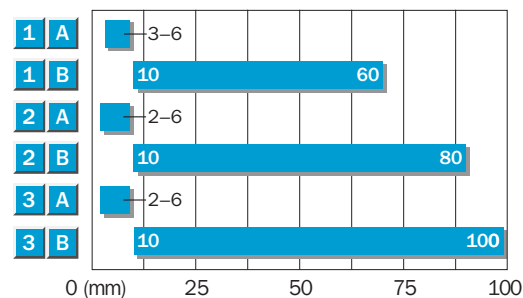
⁸⁾ With light/dark ratio 1:1

⁹⁾ Do not bend below 0 °C

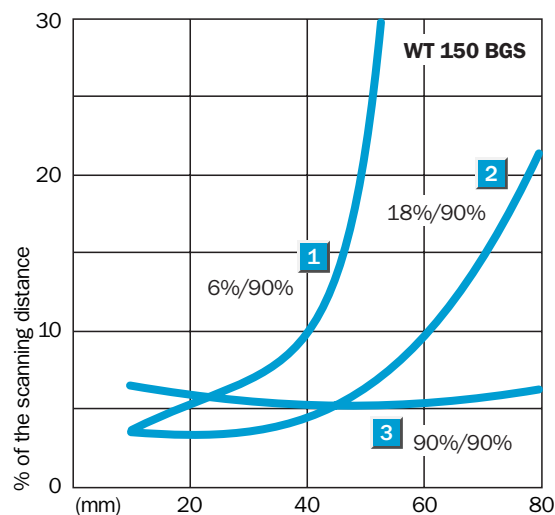
¹⁰⁾ Reference voltage 50 V DC

¹²⁾ Black = 6 % remission
Grey = 18 % remission
White = 90 % remission

Scanning distance

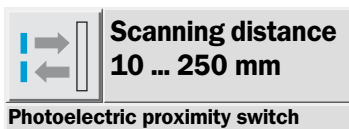


- 1 Scanning distance on black¹²⁾/white background
- 2 Scanning distance on grey¹²⁾/white background
- 3 Scanning distance on white¹²⁾/white background
- A Scanning distance control set to MIN
- B Scanning distance control set to MAX



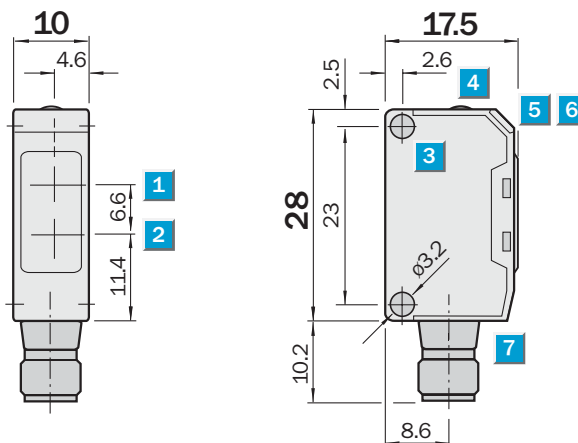
Ordering information

Type	Part Number
WT150-N162	6 011 045
WT150-N460	6 011 047
WT150-P162	6 011 048
WT150-P460	6 011 050

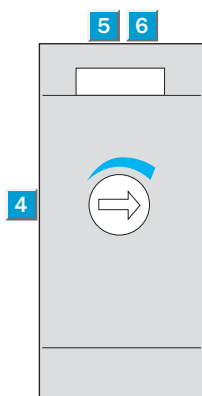


- Energetic photoelectric proximity switch for standard applications and simple contrast detection
- Adjustable switching point with sensitivity potentiometer

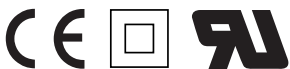
Dimensional drawing



Adjustments possible

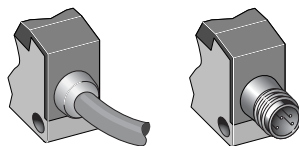


- 1 Optics centre, receiver
- 2 Optics centre, transmitter
- 3 Mounting hole $\varnothing$ 3.2 mm
- 4 Scanning distance adjustment 270°
- 5 LED indicator green: stability indicator
- 6 LED indicator orange: output active
- 7 Connector



Connection type

WT150-N132	WT150-N430
WT150-P132	WT150-P430



Accessories

Connector, M8, 4-pin
Mounting systems

4 x 0.18 mm² M8, 4-pin

