

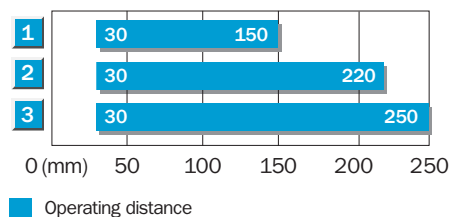
Technical data		WT 9-2	P130	P430	N130	N430	P330	P630				
<b>Scanning distance adjustable</b> <sup>4)</sup>	30 ... 250 mm											
Scanning range	5 ... 250 mm											
<b>Supply voltage</b> $V_S$ <sup>2)</sup>	DC 10 ... 30 V											
Ripple <sup>3)</sup>	$\leq 5 V_{PP}$											
Current consumption <sup>4)</sup>	$\leq 40 \text{ mA}$											
<b>Light source</b>	LED, visible red light <sup>5)</sup>											
Light spot diameter	15 x 15 mm at a distance of 200 mm											
<b>Switching outputs Q and <math>\bar{Q}</math></b>	PNP											
	NPN											
Signal voltage HIGH	$V_S - 2.9 \text{ V}$											
	$V_S$											
Signal voltage LOW <sup>6)</sup>	Approx. 0 V											
	$\leq 1.5 \text{ V}$											
<b>Output current</b> $I_A \text{ max.}$	$\leq 100 \text{ mA}$											
<b>Response time</b> <sup>7)</sup>	$\leq 333 \mu\text{s}$											
<b>Switching frequency max.</b> <sup>8)</sup>	1500/s											
<b>Connection technology</b>	Connection cable, 2 m											
	Cable, 120 mm, with plug M 12, 4 pin											
	Plug M 12, 4 pin											
	Plug M 8, 4 pin											
<b>VDE protection class M 12</b> <sup>9)</sup>	<input type="checkbox"/>											
<b>VDE protection class M 8</b> <sup>9)</sup>	III											
<b>Protection type</b>	IP 67											
<b>Protection circuits</b> <sup>10)</sup>	A, B, C											
<b>Ambient temperature</b> <sup>11)</sup>	Operation $-40 \dots +60 \text{ }^\circ\text{C}$											
	Storage $-40 \dots +75 \text{ }^\circ\text{C}$											
<b>Weight</b>												
with connection cable 2 m/120 mm	Approx. 80 g											
with equipment plug M 12/M 8, 4 pin	Approx. 20 g											

<sup>4)</sup> Object with 90% reflectance (referred to standard white DIN 5033)  
<sup>2)</sup> Limit values  
<sup>3)</sup> Must be within  $V_S$  tolerances  
<sup>4)</sup> Without load

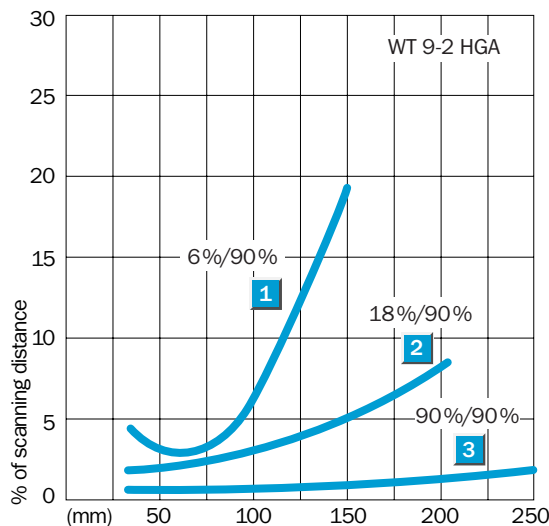
<sup>5)</sup> Average service life at room temperature 100,000 h  
<sup>6)</sup> At  $T_U = +25 \text{ }^\circ\text{C}$  and 100 mA output current  
<sup>7)</sup> With resistive load  
<sup>8)</sup> With light/dark ratio 1:1

<sup>9)</sup> Withstand voltage 50 V  
<sup>10)</sup> A = supply connections reverse polarity protected  
 B = outputs short-circuit protected  
 C = interference suppression  
<sup>11)</sup> Do not distort cable below  $0 \text{ }^\circ\text{C}$

**Scanning distance**



- 1 Scanning range on black<sup>1)</sup>, white background, Black = 6% reflectance
- 2 Scanning range on gray, white background, Gray = 18% reflectance
- 3 Scanning range on white, white background, White = 90% reflectance



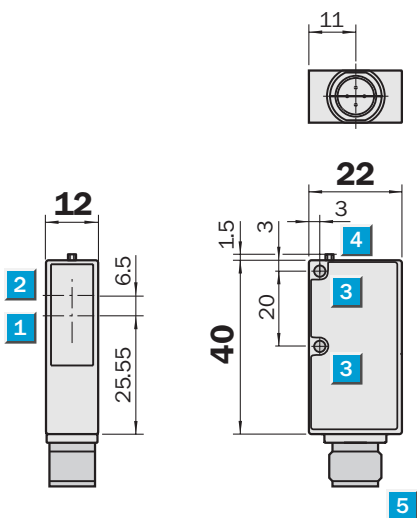
**Ordering information**

Type	Order no.
WT 9-2P130	1 018 293
WT 9-2P430	1 018 295
WT 9-2N130	1 018 294
WT 9-2N430	1 018 296
WT 9-2P330	1 019 026
WT 9-2P630	1 019 272

**Scanning distance**  
**18 ... 450 mm**  
 Photoelectric proximity switch

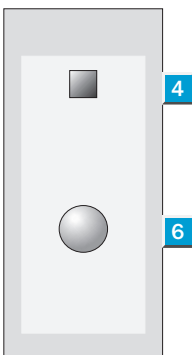
- Red-light emitter LED as alignment aid
- Scanning distance adjustable
- Switching frequency 800/s
- Outputs short-circuit protected
- Teach-In

**Dimension illustration**



**Setting options**

WT 9-2P151	WT 9-2P351
WT 9-2P451	WT 9-2P651
WT 9-2N151	
WT 9-2N451	

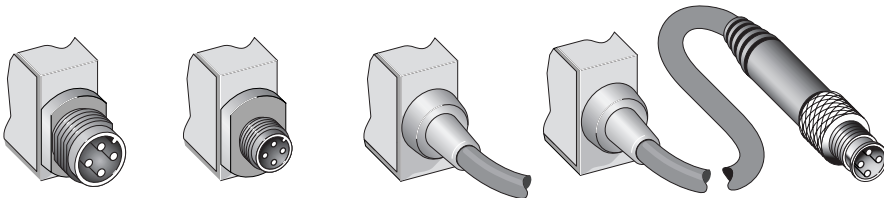


- 1 Axis of the receiver optics
- 2 Axis of the sender optics
- 3 Mounting hole  $\varnothing$  3.2 mm
- 4 LED signal strength indicator
- 5 Plug M 12 or M 8, 4 pin, 2 m connection cable or 120 mm cable with plug M 12, 4 pin
- 6 Scanning distance adjuster, teachable



**Connection type**

WT 9-2P451	WT 9-2P351	WT 9-2P151	WT 9-2P651
WT 9-2N451		WT 9-2N151	



**Accessories**

Mounting bracket
Cable receptacles
Adapter plate

