

7229446

# WL 150 Photoelectric reflex switches with polarisation filter

	WL 150	-P	-N
Connection type	2 m connection cable		
<b>Equipment designation</b>	WL 150-P 132		WL 150-N 132
<b>Order No.</b>	6 011 036		6 011 033
Connection type	Equipment plug M 8-4 pin		
<b>Equipment designation</b>	WL 150-P 430		WL 150-N 430
<b>Order No.</b>	6 011 038		6 011 035
Typical maximum range	<b>0.005 ... 2.8 m</b> ; with PL80A reflector		
<b>Recommended Operational Ranges RW</b>	<b>0.01 ... 2.0 m</b> ; with PL80A reflector		
	<b>0.01 ... 1.5 m</b> ; with P250 reflector		
	<b>0.01 ... 0.8 m</b> ; with PL20A reflector (supplied)		
	<b>0.01 ... 0.5 m</b> ; with Diamond Grade reflective tape, 35 x 35 mm		
Polarising filter	Yes		
Light spot diameter	Approx. 150 mm at 1.5 m distance		
Aperture angle	Approx. 6°		
Sensitivity control	Potentiometer, 270°		
<b>Light sender</b>	LED, visible red light with polarising filter		
<b>Supply voltage V<sub>S</sub></b>	DC 10 ... 30 V <sup>1)</sup>		
Current consumption (without load)	max. 20 mA		
Light receiver switching mode	Light/Dark switching with control wire <sup>2)</sup>		
<b>Switching outputs</b> open collector	<b>PNP</b>		<b>NPN</b>
Signal voltage HIGH	V <sub>S</sub> - (≤ 1.5 V)		approx. V <sub>S</sub>
Signal voltage LOW	Approx. 0 V		≤ 1.5 V
Output current max.	100 mA		
Time delay (max.), Switching frequency (min)	0.5 ms; 1000/s		
<b>VDE Protection class</b>	III		
<b>Protection type (IEC 144)</b>	IP 67 (IEC 144)		
Protection circuits <sup>3)</sup>	A, B, C, D		
Ambient operating temperature T <sub>A</sub>	- 25 ... + 55 °C		
Storage temperature T <sub>S</sub>	- 40 ... + 70 °C		
Equipment plug	M 8-4 pin		
Connection cable	PVC, 2 m, 4 x 0,18 mm <sup>2</sup> , ø 3,5 mm		
Weight with equipment plug with 2 m connection cable	7 g		44 g

1) Limit values, ripple max. ± 10 %

2) Control wire open  
NPN: light switching  
PNP: dark switching  
control wire + V: light switching  
control wire 0 V: dark switching3) A = V<sub>S</sub> connections protected against reverse polarity  
B = Inputs/Outputs protected against reverse polarity  
C = Interference pulse suppression  
D = Outputs protected against over-current and short-circuit



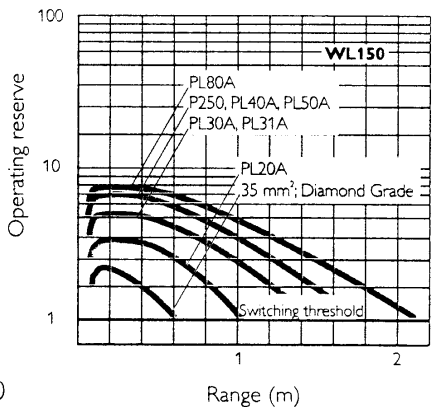
## Range

0.01...2.0 m



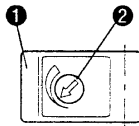
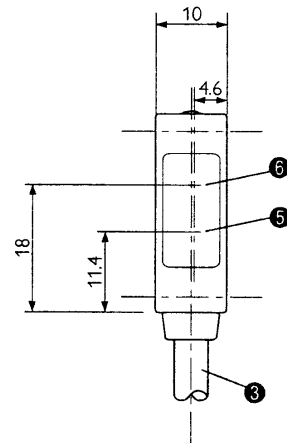
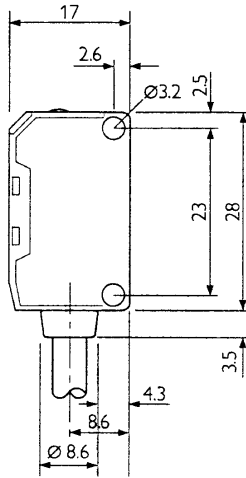
## Features:

- Miniature photoelectric switch with integrated amplifier
- Miniature size ideal for installations where there is little room
- Polarising filter providing problem-free detection of glossy objects
- Also suitable for "Diamond Grade" reflective tape
- Red light sender LED to assist with adjustment
- Sensitivity adjustable
- Direct voltage supply
- 2 m connection cable or M 8-4 equipment plug
- CE /

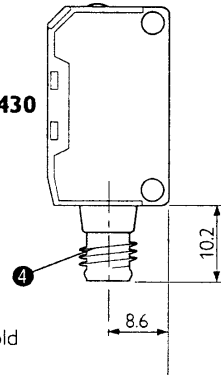


## WL 150

### WL150-P/-N132



### -P/-N430

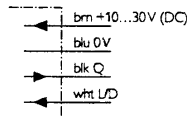


- 1 Red LED indicator: Light received  $\geq$  Switching threshold
- 2 Sensitivity controller 270°
- 3 Connection cable
- 4 Equipment plug M8-4 pin
- 5 Sender axis
- 6 Receiver axis

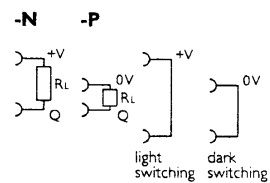
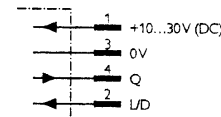
Cable boxes M 8-4 pin, see accessories.  
 Mounting bracket BEF-W 150-A included.  
 Optional extra: Mounting bracket BEF-W 150-B, see accessories.  
 PL20A reflector included.  
 See accessories

## Connection plan

### WL150 -P/-N132



### -P/-N430



L/D = Control wire

brn	blu	blk	wht
brown	blue	black	white
braun	blau	schwarz	weiß