

WL 150

Photoelectric reflex switches with polarisation filter

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

1) Limit values, ripple max. $\pm 10 \%$

2) Control wire open

NPN: light switching

PNP: dark switching

control wire + V: light switching

control wire 0 V: dark switching

3) A = V_s 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



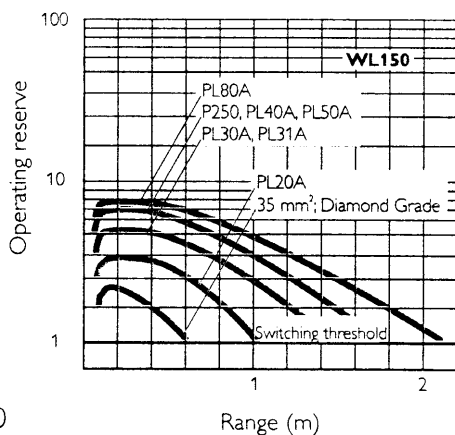
Range

0.01...2.0 m



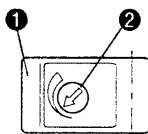
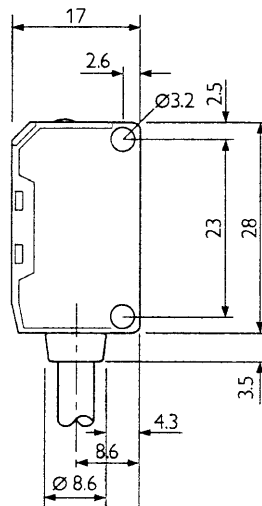
Features:

- 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 / 



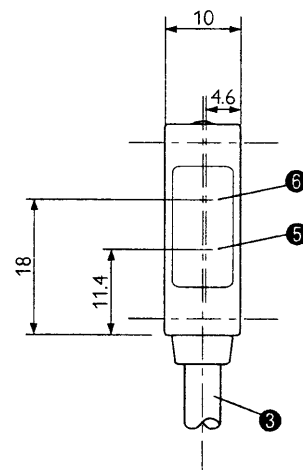
WL 150

WL150-P/-N132

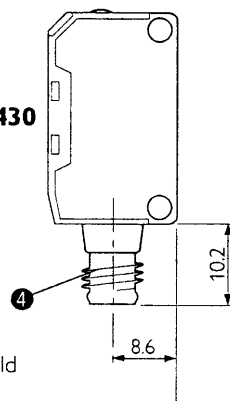


- 1 Red LED indicator: Light received $\geq$ Switching threshold
- 2 Sensitivity controller 270°
- 3 Connection cable
- 4 Equipment plug M8-4 pin
- 5 Sender axis
- 6 Receiver axis

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

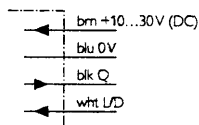


-P/-N430

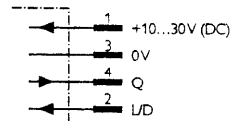


Connection plan

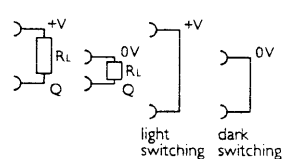
WL150 -P/-N132



-P/-N430



-N -P



L/D = Control wire

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