

723-4570

Fork Sensor WF

Fork width

2 to 120 mm



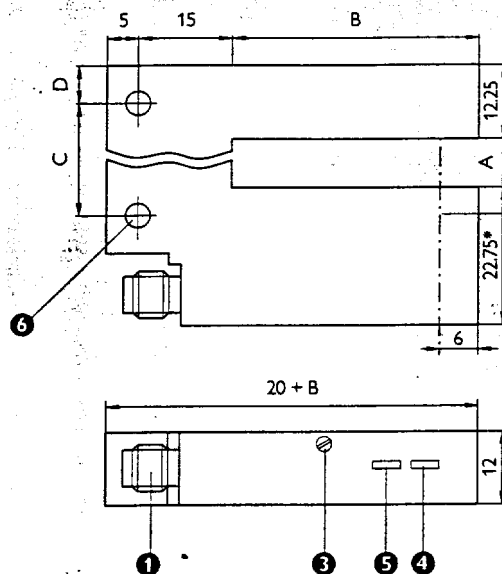
Features:

- Simple and accurate adjustment by potentiometer (25 rotations)
- PNP and NPN output
- Light/Dark switching
- M8, 4-pin plug
- Ambient operating temperature – 20 °C to + 60 °C
- Solid aluminium housing
- CE

Applications:

- Lateral shift control
- Label detection
- Detection of sheets overlapping
- Detection of marks on a translucent film
- Elevator position control

WF



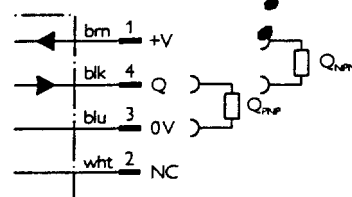
* 25.75 for WF 2-B4210

- 1 M8 Plug, 4-pin
- 2 Optical axis
- 3 Sensitivity control
- 4 Function indicator (yellow) lightbeam free
- 5 Function indicator (red) lightbeam not free
- 6 Mounting holes, $\varnothing$ 4.2 mm

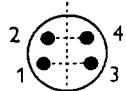
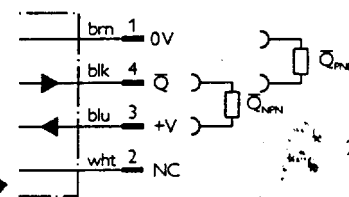
Abmessungen	A (mm) Fork width	B (mm) Fork depth	C (mm)	D (mm)
WF 2	2	40	14	6.25
WF 15	15	40	27	6.25
WF 30	30	40	42	6.25
WF 50	50	57	40	17.25
WF 80	80	57	70	17.25
WF 120	120	57	110	17.25

Connection diagram

Light Switching



Dark Switching



Fork Sensor WF

Type	WF	2-B4150	15-B4150	30-B4150	50-B4150	80-B4150	120-B4150	2-B4210
Part No.		6 012 063	6 012 064	6 012 065	6 012 066	6 012 067	6 012 068	6 012 062
Fork width		2 mm	15 mm	30 mm	50 mm	80 mm	120 mm	2 mm
Light sender		LED, infrared, modulated						LED, infrared, continuous
Supply voltage		10 ... 30 V, DC						
Current consumption		30 mA						
Ripple		< 10%						
Switching output		PNP/NPN, light/dark switching						
Residual voltage at $I_A = 100$ mA		< 2 V						
Residual voltage at $I_A = 10$ mA		< 1 V						
Output current I_A max.		100 mA						
Response time		1 ms						30 μ s
Switching frequency		500/s						10,000/s
Incandescent light immunity		3,000 lux						3,000 lux
VDE protection class		I						
Enclosure rating		IP65						
Circuit protection		B, C						
Ambient operating temperature		-20 bis +60 °C						
Storage temperature		-20 bis +80 °C						
Housing		Aluminium						
Weight		approx. 36 g to 116 g depending on the fork width						approx. 36 g

1) B = outputs short-circuit protected
C = interference suppression

Truth table

Switching mode:	Light switching (Q)		Dark switching ($\bar{Q}$)	
Lightbeam free	yes	no	yes	no
Output NPN	LOW	HIGH	HIGH	LOW
Output PNP	HIGH	LOW	LOW	HIGH

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