

Scanning Range

400 mm (1800 mm max.)



70 mm max.



Features:

- LLK plastic fiber-optic cable
- Easy adaptation of fiber-optic cables
- Spot control for ease of alignment

Red sender light

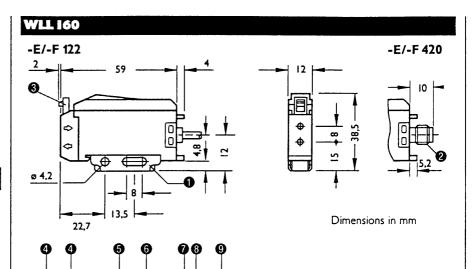
- high system reserve

Orange sender light

- system reserve fallen below

Green sender light

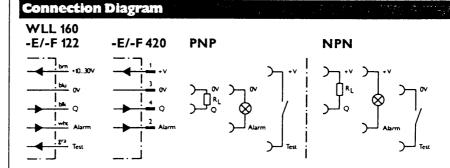
- test active
- Connecting cable or 4-pin M8 plug
- OFF delay adjustable from 0 - 100 ms
- Switching frequency 1.5 Hz
- Alarm output
- Test input to test the device and the complete system
- Overturn-protected sensitivity control (4-turn) with scale
- Light-/dark-switching selector
- (€ / **FL** / ③



- Mounting bracket (see Accessories)
- 2 M8 plug, 4-pin (for cable receptacles see Accessories)

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- 3 Lock for fiber-optic cable
- 4 Indicator: correct seating of fiber-optic cable
- 6 Sensitivity scale
- **6** Sensitivity control (4-turn)
- Light-/Dark-switching selector
- 3 ON/OFF switch: time delay
- **9** OFF delay: 0 to 100 ms
- Green reception indicator (signals high system reserve)
- Red reception indicator
 (ON = intensity of received light above switching threshold)



brn	blu	blk	wht	gra
brown	blue	black	white	gray

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WLL 160 Photoelectric Switch with Fiber-optic Cables

WLL 160	•E		
Part No.	see Selection Table		
Operating range	see Selection Table for LLK Fiber-optic Cables (page 69, 70)		
Supply voltage V _S ¹)	10 to 30 V DC		
Current consumption (without load)	≦ 30 mA		
Ripple, max. ²)	5 V _{PP}		
Light sender			
Light reception without system reserve	LED, red/orange (spot control)		
Light reception with system reserve	LED, red (spot control)		
Light receiver switching mode	Light/Dark-switching, switch-selectable		
Light receiver sensitivity	adjustable (4-turn)		
Switching outputs, open collector	NPN	PNP	
Signal voltage HIGH	approx. V _s	V _s - (≤ 1,5 V)	
Signal voltage LOW	≦ 1.5 V	ca. 0 V	
Output current max.	≤ 100 mA		
Alarm output (statical)	≦ 100 mA		
Time delay	OFF delay: 0 to 100 ms; can be switched on/off		
Test input³)	Sender deactivated 0 V	Sender deactivated $+ V_S$	
Response time, switching frequency max.	≦ 350 μs; 1500/s		
VDE protection class ⁴)	0		
Enclosure rating	IP 66		
Circuit protection ⁵)	A, B, C, D		
Ambient operating temperature	- 25 to + 55 ℃		
Storage temperature	- 40 to + 70 ℃		
Connecting cable	2 m , $5 \times 0.2 \text{ mm}^2$, diam. 4.2 mm		
Equipment plug	M 8, 4-pin		
Weight	30 g with plug, 80 g with connecting cable		
1) Limit values 2) Must be within V ₅ tolerances 3) No test input on models with plug 4) Withstand voltage 50 V	5) A = Supply connections reverse-polarity pro B = In/Outputs reverse-polarity protected C = Interference pulse suppression D = Outputs overload and short-circuit pro		

Selection Table				
	with connecting cable, 2 m	with M 8 plug, 4-pin		
NPN type	WLL 160-E 122	WLL 160-E 420		
Part No.	6009 981	6009 982		
PNP type	WLL 160-F 122	WLL 160-F 420		
Part No.	6009 989	6009 990		

