Photoelectrics, Fibre Optic Sensor Plastic Fibres Type PD 60 CNX 20 BP ..





- Range: Fibre dependent
- Diffuse Reflective typ. 80 mm
- Through Beam typ. 200 mm
- Manual distance set-up by keyboard +/-
- Sensitivity bar graph LEDs
- Microprocessor controlled and EEPROM parameter storage
- Operational voltage 10 30 V DC
- Output 100 mA, NPN and PNP
- · Light or dark switching selectable
- IP65 protection







Product Description

The PD60CNX20BP. is a fibre optic amplifier made specific for plastic fibres. The sensor is microprocessor based and has a manual distance set-up by keyboard. NO or NC (light or dark mode) output are selectable by wiring. The sensor output is build as a Pushpull output that performs both a NPN and PNP output which are fully protected against short-circuit, transients and

wrong polarity. The sensor is build in a strong 13 x 30 x 60 mm polycarbonate housing for DIN-rail mounting.

The sensors are suitable for applications that require little space and high accuracy such as: Small part detection, tight locations, checking parts, counting, precise part positioning, material handling and assembly and robotics

Ordering Key PD 60 CNX 20 BP M5

Туре	
Housing style———	
Housing size————	
Housing material ———	
Not used —	
Plastic fibres —	
Sensing distance cm —	
Output type —	
Output configuration—	
Connection type	

Type Selection

Housing W x H x D	Range S _n (Fibre dependent)	Ordering no. NPN and PNP cable Make or break switching	Ordering no. NPN and PNP plug Make or break switching
13 x 30 x 60 mm	80 mm diffuse mode 200 mm through beam mode	PD 60 CNX 20 BP	PD 60 CNX 20 BP M5

Specifications

Rated operating distance (S_n) Diffuse mode Through beam mode	See optical fibre table Up to 80 mm Up to 200 mm	Voltage drop (U_d) $I_L = 100 \text{ mA}$ $I_L = 10 \text{ mA}$	≤ 2 VDC ≤ 1 VDC
Sensitivity Manual distance setup	Sensitivity increase or decrease by pressing + or - keyboard	Remote input ON OFF Protection	≤ 1.4 VDC ≥ 3.0 VDC Short-circuit, reverse pola-
Temperature drift	< 0,4%/°C		rity, transients
Hysteresis (H) Differential travel	≤ 5%	Light source	GaAlAs, LED 660 nm
		Light type	Red modulated
Rated operational volt. (U _B)	10 to 30 VDC (ripple included)	Ambient light Incandescent light	10'000 Lux
Ripple (U _{rpp})	≤ 10%	Sunlight	20'000 Lux
Output current Continuous (I _e) Short-time (I)	100 mA 100 mA	Operating frequency Response time OFF-ON (t _{ON})	1 KHz ≤ 500 ພs
No load supply current (I _o)	≤ 40 mA	ON-OFF (t _{OFF})	≤ 500 μs
		Power ON delay (t _v)	≤ 300 ms

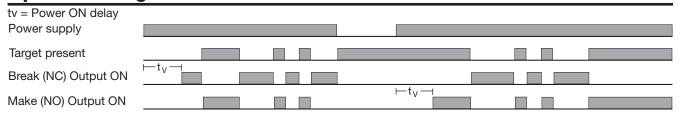


Specifications (cont.)

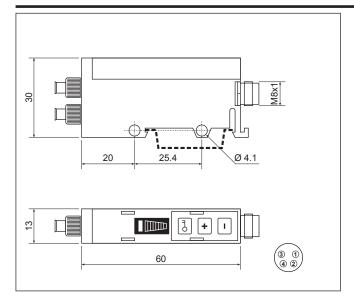
Output function NPN and PNP Make or break	Available (Push-Pull output) Programming by wiring
Indication function Output	Green LED
Sensitivity	Bar graph, red
Environment	
Installation category	II (IEC 60664/60664A;60947-1)
Pollution degree	3 (IEC 60664/60664A;60947-1)
Degree of protection	IP 65 (IEC 60529; 60947-1)
Temperature	
Operating	0° to +60°C (32° to +140°F)
Storage	-20Y to +80YC (-4° to +176°F)

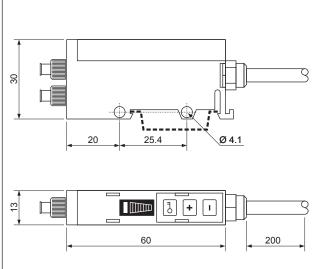
Vibration	10 to 150 Hz, 0.5 mm/7.5 g (IEC60068-2-6)
Shock	2 x 1 m & 100 x 0.5 m (IEC 60068-2-6, 60068-2-32)
Rated insulation voltage	50 VAC (rms)
Housing material Body	Polycarbonate
Connection Cable Plug Cables for plug (M5)	PVC, grey, 2 m, 4 x 0,25 mm ² NPB, M8 x 1 CONG5A-series
Weight	24 g
Approvals	cUL
CE-marking	Yes

Operation Diagram



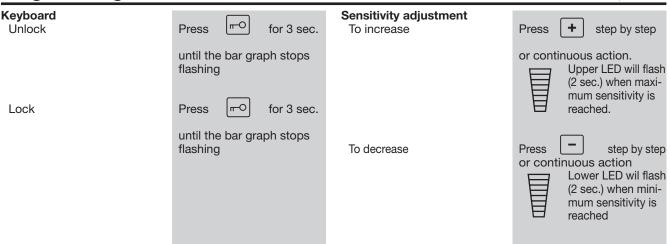
Dimensions



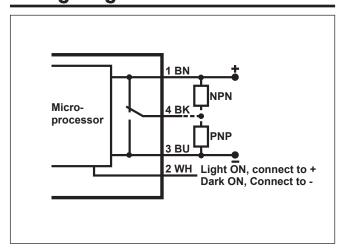




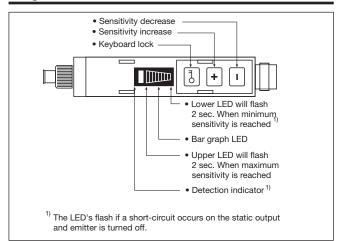
Programming Functions



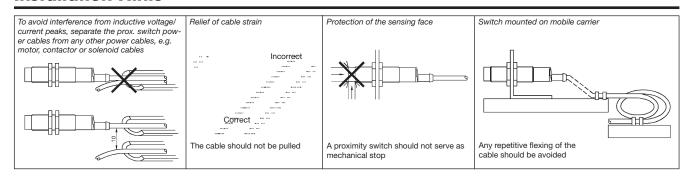
Wiring Diagram



Keyboard and LED



Installation Hints



Delivery Contents

- Photoelectric switch: PD60CNX20BP..
- Installation instruction
- Packaging: Cardboard box

Accessories

- Plastic fibres type FPD.., FPT..
- Connector type: CONG5A../CON.54NF

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