Housing Range Connection Ordering no. WxHxD PNP N.O., NPN N.C. Sn 15 x 74 x 60 mm 30 mm Cable **PF 74 CNT 30 BC Specifications** Sensing gap (S_n) ≤ 30 mm Aperture emitter or receiver ≥ 50 (500%) Excess gain Light spot 0 mm Ambient light

Blind zone Sensitivity No sensitivity control **Temperature drift** ≤ 0.7%/°C ± 20% Hysteresis (H) 5 to 20% Rated operational volt. (U_B) 19.2 to 28.8 VDC (ripple included) Ripple (U_{rpp}) ≤ **10% Output current** Continuous (I_e) ≤ 100 mA Short-time (I) ≤ 100 mA (max. load capacity 100 nF) \leq 30 mA @ U_B max No load supply current (I_o) \geq 25 mA @ U_B min Minimum operational current (I_m) 0 mA Voltage drop (U_d) \leq 1.5 VDC @ I_e max Protection Short-circuit, reverse polarity and transients Light source InGaAIP, LED, 940 nm Infrared, modulated Light type Minimum object Vertical (V) single object 2 mm Vertical (V) multiple object See fig. 1 Horisontal (H) single object 3 mm

Photoelectrics Fork Sensor for Lifts Type PF74CNT30B.

PF74CNT30B0

	Made in China	Ð		
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Product Description

The PF74CNT30., sensor family comes in a compact 15 x 60 x 74 mm reinforced polycarbonate housing. The sensor is designed for

Elevator applications for lift car leveling, floor count, overshoot and redundancy. The sensor comes in two ver-

Type Selection

sions with push-pull output in either N.O. or N.C. for the NPN or PNP output state. The sensor has a high immunity to environmental conditions such as dust, ambient light and the high switching frequency makes it suitable for high speed Elevators.

Photoelectric Fork Sensor

- Gap: 30 mm
- Modulated, infrared light 940 nm
- Supply voltage: 24 VDC ± 20% ٠
- Output: 100 mA, NPN / PNP Push-Pull ٠
- Make and break switching function
- LED indication for output, stability and power ON
- Protection: reverse polarity, short circuit and transients
- Cable version
- **Excellent EMC performance**
- High immunity against dust

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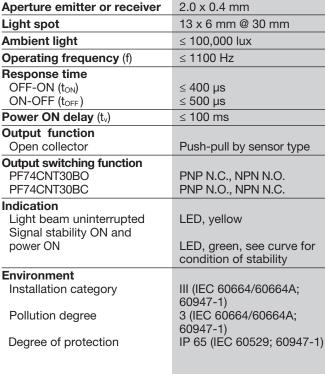
Ordering Key

Type Housing style Housing size Housing material Sensing principle Fork opening Output type Output function

> Ordering no. PNP N.C., NPN N.O.

PF 74 CNT 30 BC

PF 74 CNT 30 BO



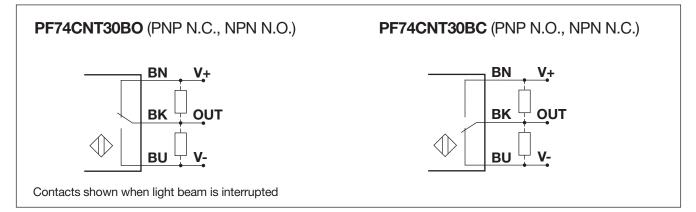


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Specifications (cont.)

Ambient temperature Operating Storage	-25° to +60°C (-13° to +140°F) -40° to +70°C (-40° to +158°F)	Housing material Body Cover	Polycarbonate (PC), black Polycarbonate (PC), grey
Vibration	10 to 150 Hz, 1.0 mm/15 G (IEC 60068-2-6)	LED window	Polycarbonate (PC), transparent
Shock	30 g / 11ms, 3 pos, 3 neg per axis (IEC 60068-2-6, 60068-2-32)	Cable outlet Connection Cable	TPE, black PVC, grey, 5 m
Rated insulation voltage	≤ 50 VDC	Weight	$3 \times 0.5 \text{ mm}^2$, $\emptyset = 5.6 \text{ mm}$ $\leq 225 \text{ g}$
		CE-marking	Yes

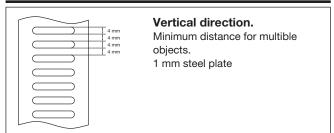
Wiring Diagrams



Operation Diagram

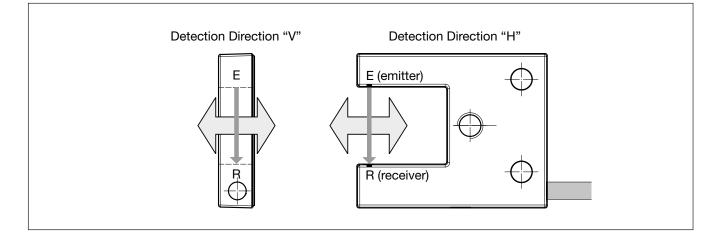
t = Power ON delay					
Power supply present					
Object present (lightbeam interrupted)				1
Yellow LED		1		t	
PF74CNT30BO Output Sink (NPN output active)		1		t .	
Output Source (PNP output active)					
PF74CNT30BC Output Sink (NPN output active)					
Output Source (PNP output active)				t	

Fig. 1



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Detection Direction



Dimensions

