

Proximity photoelectric sensor EN18 series








Highlights

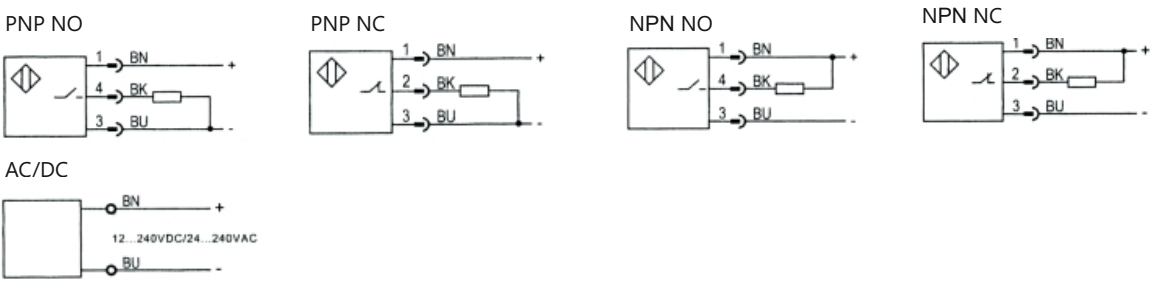
- Economical solution for numerous applications ;
- Sensing distance defuse type up to 800 mm, adjustable via potentiometer , retro reflective type up to 3m and trough beam type up to 10m ;
- Red or infrared light source ;
- Variants with angled light exit ;
- Robust metal housings (IP 67) ;
- Simple adjustment via potentiometer ;
- 2 through holes as additional mounting possibility

Detection mode	Model	Distance	Light source	Friquency	Output	Switching mode	Connection
Defuse type	EN18-3A30PCI-C	300 mm	Infrared	1 KHz	PNP	Light on/Dark on	M12 Connector, 4 pin
	EN18-3A30NCI-C	300 mm	Infrared	1 KHz	NPN	Light on/Dark on	M12 Connector, 4 pin
	EN18-3A30PCI	300 mm	Infrared	1 KHz	PNP	Light on/Dark on	2m Cable, 4 wires
	EN18-3A30NCI	300 mm	Infrared	1 KHz	NPN	Light on/Dark on	2m Cable, 4 wires
	EN18-2A50LAI	500 mm	Infrared	1 KHz	Relay	Dark on	2m Cable, 2 wires
	EN18-2A50LBI	500 mm	Infrared	1 KHz	Relay	Light on	2m Cable, 2 wires
	EN18-3A50PAL	500 mm	RED Laser	1 KHz	PNP	Dark on	2m Cable, 3 wires
	EN18-3A50NAL	500 mm	RED Laser	1 KHz	NPN	Dark on	2m Cable, 3 wires
	EN18-3A50PAI	500 mm	Infrared	1 KHz	PNP	Dark on	2m Cable, 3 wires
	EN18-3A50NAI	500 mm	Infrared	1 KHz	NPN	Dark on	2m Cable, 3 wires
Retro-reflective	EN18-3B2PCI	2m	Infrared	1 KHz	PNP	Light on/Dark on	2m Cable, 4 wires
	EN18-3B2NCI	2m	Infrared	1 KHz	NPN	Light on/Dark on	2m Cable, 4 wires
Through-beam	EN18-3C5PCI-C	5m	Infrared	1 KHz	PNP	Light on/Dark on	M12 Connector, 4 pin

Product parameters

Type		Diffuse	Retro reflective		Trough beam
Model	NPN	See part number in detailed product brochure		See part number in detailed product brochure	
	PNP	See part number in detailed product brochure		See part number in detailed product brochure	
Products shape			 	 	
Sensing range		Defuse type 2-300mm (white paper 100mm)	Retro reflective 2-3000mm (Regular type model)		Trough beam type 2-5000mm (Regular type model)
Black and white error		3%(distance 160mm)			
Hysisteresis		Less than 3% of rated detection distance			
Output type switching		N.O./N.C. via control white wire to power			
Current consumption		Max. 100mA			
Light source		Red light source 630nm		Infrared light source 850nm	
		JIS/IEC CLASS1,FDA CLASSI max. 4.5mW			
Control output		The load power supply voltage is max. DC26.4V, the load current is max. 100mA, the leakage current is less than 10 μ, and the collector is open circuit output			
Output residual voltage		Residual voltage below 1V (load current max. 10mA) residual voltage below 2V (load current max. 10 ~ 100mA)			
Power voltage		DC 12~24V±10% ripple(P-P) max.10%			
Response time		max. 0.5ms			
Ambient temperature		Working :-25 ... +55 ℃ ¥ Storage -40℃ ~+70℃			
Ambient humidity		Working:35~85%RH ¥ Storage -35~95%RH			
Protection		Power reverse protection / load short circuit protection / mutual interference prevention function / output reverse connection protection			
Ip level		IEC60529:IP65			
Material	shell	Polybutylene terephthalate ¥ Brass Nickel Plated			
	display unit	Polyester rubber			
	lens	Polyester rubber			

Input/Output circuit



Dimension

