

PC27 Series laser Rectangular Photoelectric Sensor

Milbo



- Features
- Easy for connection, installation and application
- Stable & reliable detection. Operation indicator
- Small light spot: 2~3mm
- Visible light of small spot realized
- Position confirmed by naked eye
- Flexible cable
- Degree of protection: IP55

PC27	-	B	300	NL
Series		Sensing Method	Sensing Distance	Output Mode
PC27 Series		B: Diffuse Reflective T: Through beam D: Retro-reflective	100:100mm 200:200mm 300:300mm M08:8M M30:30M	NL:NPN LO ND:NPN DO PL:PNP LO PD:PNP DO N:NPN LO+DO P:PNP LO+DO

Model					
NPN NO	PC27-B200NL	PC27-B300NL	—	PC27-DM08NL	PC27-TM30NL
NPN NC	PC27-B200ND	PC27-B300ND	—	PC27-DM08ND	PC27-TM30ND
PNP NO	PC27-B200PL	PC27-B200PL	—	PC27-DM08PL	PC27-TM30PL
PNP NC	PC27-B200ND	PC27-B300ND	—	PC27-DM08ND	PC27-TM30ND
NPN LO+DO	—	—	PC27-B500N	—	—
PNP LO+DO	—	—	—	—	—

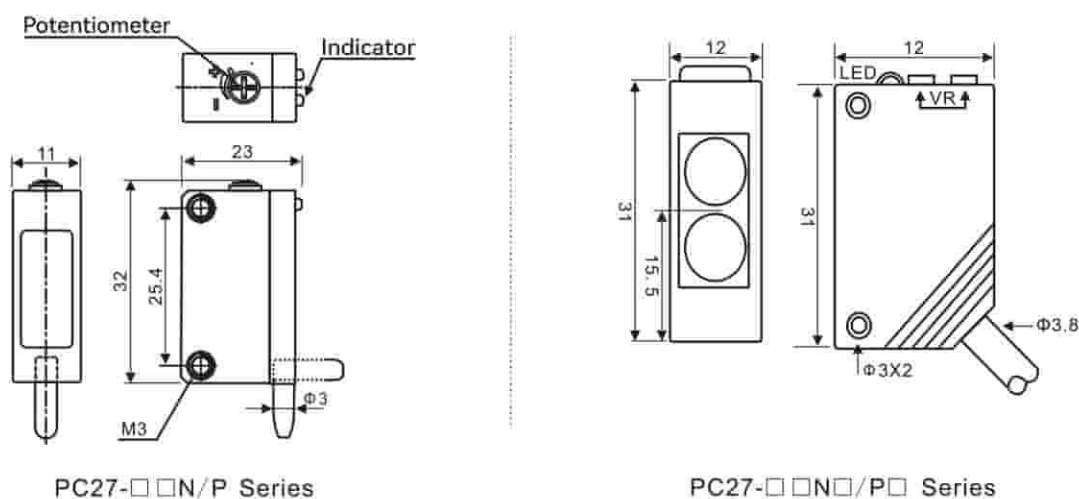
Specification						
Sensing Method	Diffuse reflective				Retro-reflective	Through-beam
Sensing Distance①	100mm	200mm	300mm	500mm	8M	30M
Standard Sensing Object	100×100 White paper				Reflector	Opaque object: 8mm Max.
Spot diameter	1～2mm	2～3mm	2～3mm	2～3mm	2～3mm	2～3mm
Sensitivity Adjustment	Yes					No
Response Time	1ms	5ms	5ms	1ms	5ms	5ms
Differential Travel	20% Max. of sensing distance					
Light Source/Wavelength	Visible LED (wavelength 660nm)					
Power Supply Voltage (Operating Voltage Range)	12-24VDC, Ripple (p-p) 10% Max. (10-30VDC)					
Current consumption	max 45mA	max 10mA		max 10mA	max 45mA	Launchu<10mA, Receiveu<11mA
Load Current	100mA Max	150mA Max		100mA Max	150mA Max	150mA Max
Residual Voltage	3V Max. (@100mA load, 2M cable)					
Leakage Current	0.01mA Max. @24VDC					
Indicators	Red					
Operation Mode	N-(NPN LO+DO)/NL-(NPN LO)/ND-(NPN DO)/P-(PNP LO+DO)/PL-(PNP LO)/PD-(PNP DO)					
Protection Circuit	Overload/Short circuit protection.					
Ambient Temperature Range	Operating / storage: 0~+50°C (with no icing or condensation)					
Ambient Humidity Range	Operating / storage: 35-85% (with no condensation)					
Temperature Influence	±10% Max. of sensing distance @+25°C in the temperature range					
Insulation Resistance	50MΩ Min. (at 500VDC) between current carrying parts and case					
Dielectric Strength	1000VAC 50/60Hz for 1 minute between current carrying parts and case					
Vibration/Shock Resistance	IEC 60947-5-2,Part7.4.1 / IEC 60947-5-2,Part7.4.2					
EMC	RFI>3V/M / EFT>1KV / ESD>4KV(contact)					
Degree of Protection	IEC standards EN60529:IP55					
Connection Method	Pre-wired 2M					
Weight (Packed state)	~50g					~100g
Materials of Case	ASA PMMA	ABS	ABS	ASA PMMA	ABS	ABS
Materials of Sensing Surface	PMMA	Filter Glass	Filter Glass	PMMA	Filter Glass	Filter Glass
Accessories	Clamping nuts.					

① Sensing distance, range ±10%.

② Response frequency is an average value. Measure condition is as follow: standard sensing object, a setting distance of half the sensing distance.

Dimension Diagram

Unit: mm



Wiring Diagram

