



PCD	-	B	300	NL
Series PCD Series		Sensing Method B: Diffuse Reflective T: Through beam D: Retro-reflective	Sensing Distance 100: 100mm M05: 5M	Output Mode NL: NPN LO ND: NPN DO PL: PNP LO PD: PNP DO

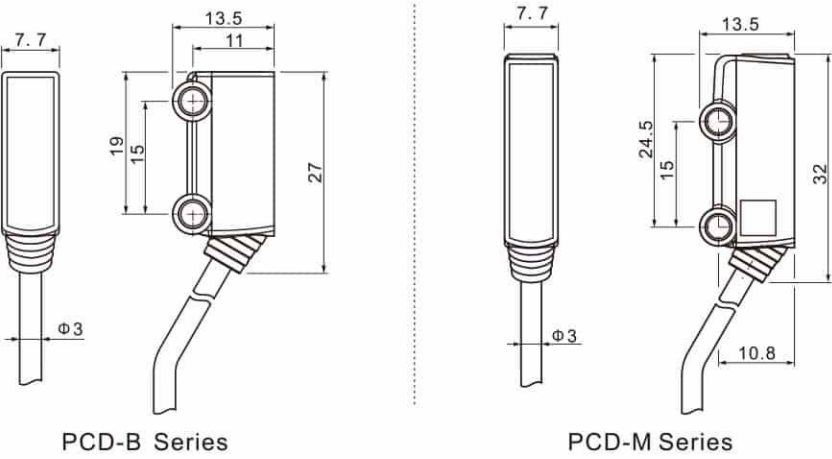
- Features
- Ultra small size. Easily install
 - Reverse polarity/Short circuit protection
 - Surge suppressor
 - Flexible cable/Oil resistance

Model		
NPN LO	PCD-B100NL	PCD-7M02NL
NPN DO	PCD-B100ND	PCD-7M02ND
PNP LO	PCD-B100PL	PCD-7M02PL
PNP DO	PCD-B100PD	PCD-7M02PD

Specification		
Sensing Method	Diffuse reflective	Through-beam
Light Source/Wavelength	Red LED (Visible)	
Sensing Distance	1M	20M
Standard Sensing Object	Opaque object	
Differential Travel	10% Max. of sensing distance	—
Response Time	1.0ms Max.	
Power Supply Voltage (Operating Voltage Range)	12-24VDC, Ripple (p-p) 10% Max. (10-30VDC)	
Current consumption	5mA Max. @NPN. 7mA Max. @PNP 100mA Max. @12VDC, 200mA Max.@24VDC	
Residual Voltage	2V Max.	
Ambient Illumination	Incandescent lamp 5000lx Max./Sunlight 10,000lx Max.	
Protection Circuit	Reverse Polarity/Overload/Short circuit protection/ Surge suppressor	
Ambient Temperature Range	Operating -25~+55°C / storage: -40~+70°C (with no icing or condensation)	
Ambient Humidity Range	Operating 35~85%/ storage: 35-95% (with no icing or condensation)	
Insulation Resistance	20MΩ Min. (at 500VDC) between current carrying parts and case	
Dielectric Strength	1000VAC 50/60Hz for 1 minute between current carrying parts and case	
Vibration Resistance	10-55Hz 1.5mm double amplitude for 2 hours each in X, Y, Z directions	
Shock Resistance	500 m/s2 10 times each in X, Y and Z directions	
Degree of Protection	IEC standards: IP50	
Materials of Case/Sensing Surface	Case: PBT/ Sensing;Surface: Acrylate resin	
Connection Method	Pre-wired 2M	

Dimension Diagram

Unit: mm



Wiring Diagram

