



- Features
- Easy for connection, installation and application
- Stable & reliable detection. Operation indicator
- Protections: Overload/ Short circuit
- Flexible cable
- Degree of protection: IP65
- Ambient temperature: 0~+55°C

PC22	-	B	300	NL
Series		Sensing Method	Sensing Distance	Output Mode
PC22 Series		B: Diffuse Reflective T: Through beam D: Retro-reflective	030:30mm 050:50mm 300:300mm M01:1M M05:5M	NL:NPN LO ND:NPN DO PL:PNP LO PD:PNP DO N:NPN LO+DO P:PNP LO+DO

Model

NPN NO	—	PC22-B200NL	PC22-B300NL	—	PC22-DM02NL	—	PC22-TM05NL	—
NPN NC	—	PC22-B200ND	PC22-B300ND	—	PC22-DM02ND	—	PC22-TM05ND	—
PNP NO	—	PC22-B200PL	PC22-B300PL	—	PC22-DM02PL	—	PC22-TM05PL	—
PNP NC	—	PC22-B200PD	PC22-B300PD	—	PC22-DM02PD	—	PC22-TM05PD	—
NPN LO+DO	PC21-B100N	—	—	PC21-B400N	—	PC21-DM03N	—	PC21-TM12N
PNP LO+DO	PC21-B100P	—	—	PC21-B400P	—	PC21-DM03P	—	PC21-TM12P

Specification

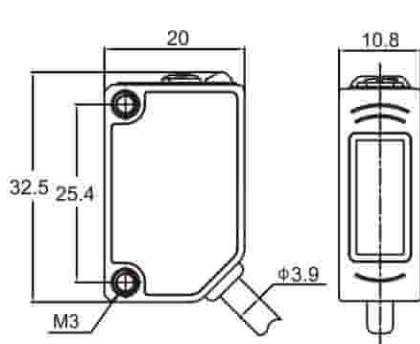
Sensing Method	Diffuse reflective				Retro-reflective		Through-beam	
Sensing Distance①	100mm	200mm	300mm	400mm	2M	3M	5M	12M
Standard Sensing Object	100×100 White paper				Reflector		Opaque object: 8mm Max.	
Sensitivity Adjustment	Yes						—	
Response Time	1ms	5ms	5ms	1ms	5ms	1ms	5ms	5ms
Differential Travel	20% Max. of sensing distance							
Light Source/Wavelength	PC22 invisible infrared light (880nm); PC21 Visible infrared light (650nm) PC21 Series							
Power Supply Voltage (Operating Voltage Range)	12-24VDC, Ripple (p-p) 10% Max. (10-30VDC)							
Current consumption	30mA Max. @24VDC							
Load Current	100mA Max	200mA Max	200mA Max	100mA Max	200mA Max	100mA Max	200mA Max	100mA Max
Residual Voltage	1.5V Max. (@150mA 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~+55°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 Resistance	10~55Hz 1.5mm Up and down amplitude for 2 hours each in X, Y, Z direction							
Shock Resistance	500 m/s² 10 times each in X, Y and Z directions							
Degree of Protection	IEC standards EN60529:IP65							
Connection Method	Pre-wired 2M							
Weight (Packed state)	~50g				~100g			
Materials of Case	PBT	ABS	ABS	PBT	ABS	PBT	ABS	PBT
Materials of Sensing Surface	Acrylic Resin	Filter Glass	Filter Glass	Acrylic Resin	Filter Glass	Acrylic Resin	Filter Glass	Acrylic Resin
Accessories	Clamping nuts. Mounting bracket available(optional)							

① Sensing distance, range ±10%.

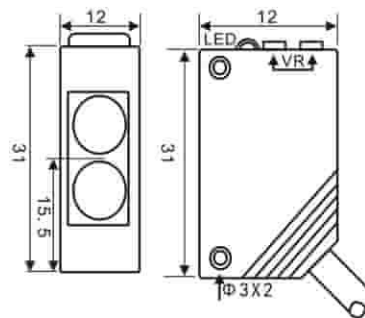
② Response frequency is an average value. Measure conditcn is as follow: standard sensing object, a setting distance of half the sensing distance.

Dimension Diagram

Unit: mm



PC22-□□N/P Series



PC22-□□N□/P□ Series

Wiring Diagram

