



PC32	-	B	300	NL
Series		Sensing Method	Sensing Distance	Output Mode
PC31 Series		B: Diffuse Reflective	500:500mm	NL: NPN LO
PC32 Series		T: Through beam	1M5: 1.5M	ND: NPN DO
		D: Retro-reflective	M04: 4M	PL: PNP LO
			M15: 15M	PD: PNP DO

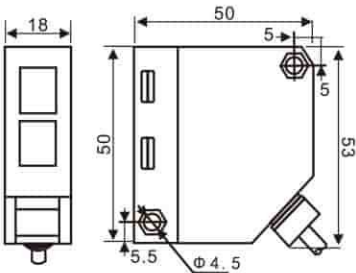
- Features
- Easy for connection, installation and application
 - Stable & reliable detection. Operation indicator
 - Protections: Surge suppressor/ Short circuit
 - Flexible cable
 - Degree of protection: IP65
 - Ambient temperature: 0~+55°C

Mode				
NPN LO	PC32-B500NL	PC32-B1M5NL	PC32-DM04NL	PC32-TM15NL
NPN DO	PC32-B500ND	PC32-B1M5ND	PC32-DM04ND	PC32-TM15ND
PNP LO	PC32-B500PL	PC32-B1M5PL	PC32-DM04PL	PC32-TM15PL
PNP DO	PC32-B500PD	PC32-B1M5PD	PC32-DM04PD	PC32-TM15PD

Specification			
Sensing Method	Diffuse reflective		Retro-reflective Through-beam
Sensing Distance ①	500mm	1.5M	4M 15M
Standard Sensing Object	200×200 White paper		Reflector Opaque object: 8mm Max.
Sensitivity Adjustment	Yes		—
Response Time	5ms		
Differential Travel	15% Max. of sensing distance		
Light Source/Wavelength	Infrared LED (wavelength 880nm)		
Power Supply Voltage (Operating Voltage Range)	12-24VDC, Ripple (p-p) 10% Max. (10-30VDC)		
Current consumption	10mA Max. @24VDC		
Load Current	200mA Max		
Residual Voltage	2.5V Max. (@200mA load, 2M cable)		
Leakage Current	0.05mA 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	Power on/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		
Ambient Illumination	Incandescent lamp 3000lx Max.		
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)	~100g		~200g
Materials of Case	ABS		
Materials of Sensing Surface	Filter Glass		
Accessories	Clamping nuts. Mounting bracket available(optional)		

- 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

