PR series - sensor

- Light on / Dark on selectable
- Attached sensitivity adjustment volume
- Protection structure IP66, circular structure
- Built in output cutoff over current protecting circuit

$\cdot \, \text{Suffix code} \,$



Model	Code				Information		
PR					Round type photosensor		
Sensing method and distance Sensing	Т	10			10m	Through-beam	
	М	1			1m	Through beam	
		2			2m	Through-beam	
	R	300			300mm	Diffuse-reflective	
N					NPN open collector output		
Output			Р		PNP open collector output		
un atorial				Р	Plastic case		
material			С	Brass case			

Specification

Sensin	g method	hod Through beam type		Diffuse reflection type			Diffuse reflection type	
Appearance		a de la constanción de la constancición de la constanción de la constanción de la constanción de la co					a second	
Model	Brass case	PR- T10NC	PR- T10PC	PR-M1NC PR-M1PC	PR-M2NC PR-M2PC	PR- R300NC	PR- R300PC	
	Plastic	PR- T10NP	PR- T10PP	PR-M1NP PR-M1PP	PR-M2NP PR-M2PP	PR- R300NP	PR- R300PP	
Sensing	Sensing Distance		m	1 m	2 m	300	mm	
Sensing Object		min Ø10 mm (opaque above)		min Ø25 mm (d	(white no	200 x 200 mm (white non-glossy paper)		
Hysteresis		-		-	of the s	Less than ±20 % of the sensing range		
Respor	max 1.5 ms							
Power supply voltage				12 - 24 V DC ±10 %				
Current	Transmitter	Max. 15 mA Max. 20 mA						
Consumption	Receiver			Max. 35 mA				

-	source length)	Infrared lightening LED (850 mm)						
Adjusting	Sensitivity	Built-in Adjusting Sensitivity Volume (but, Through-Beam has only in the receiver)						
Contro	l Output	NPN Voltage Output, Loaded Voltage: below 30 V DC, Loaded Current:below Max. 200 mA, Residual Voltage:below 1 V						
Operati	on Mode	By control line, Light ON/ Dark ON / Selecting Mode Switching (but, Through-Beam has only in the receiver)						
Operatio	n Indicator	Operation Indicator (Red LED), Stability Indicator (Green LED) (but, the transmitter (Red LED) of Through-Beam is Power Indicator)						
Protecti	on Circuit	Built-in Protection Circuit from reversed power supply connection, Output Short-Circuit Overcurrent circuit protection						
Operating A	mbient temp.	Operating: -10 ~ 60 °C, Storage: -25 ~ 70 °C (without freezing)						
Operating Ambient Humidity		35 - 85 % R.H.						
Operating Ambient Illumination		Sunlight: below 10000 Lux, Incandescent lamp: below 3000 Lux						
Protective structure		IP 66 (IEC)						
Vibration Resistance		10 ~ 55 Hz (cycle for 1 minute), double amplitude: 1.5 mm, in each direction X•Y•Z for 2 hours						
Shock R	esistance	500 m β , 3 times each in X, Y and Z directions						
Dielectri	Dielectric Strength		500 V AC (at 50/60 Hz for 1 minute)					
Insulation	Insulation Resistance		Above 20 MΩ (500 V DC)					
Connectio	Connection Method		Code extended type 2 m, 4P (Emitter : 3P)					
Acce ssories	Individual	-	Reflector (Mirror 50 x 50)	-				
	Common	So (But, the nuts o	ept washers))					