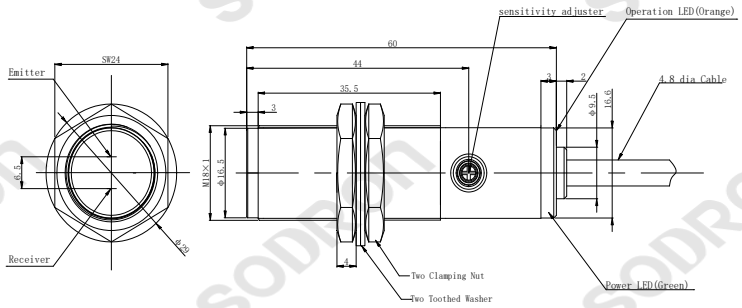
SODRON

Photoelectric Sensors

Dimension



Model

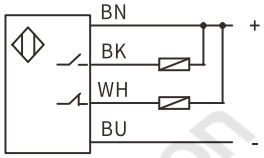
PML18V-R05BNA
PML18V-R05BPA
PML18V-R05BNAR
PML18V-R05BPAR

Product features

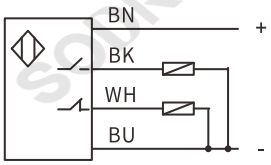
- ●Manufactured with dedicated IC for stable performance
- ● Detection distance adjustable
- ● Versatile, with multiple models available for different detection distances
- ● IEC IP67

Connection

NPN



PNP



Technical parameters

Detection method		Retro reflection type	
Model	NPN	PML18V-R05BNA	PML18V-R05BNAR
	PNP	PML18V-R05BPA	PML18V-R05BPAR
Sensing distance		5m(40X60mm Reflector)	
Standard target		＞Φ75mm（Opaque object）	
Output mode		Light-ON+Dark-ON	
Light source		Infrared light 850nm	Red 660nm
Supply power		DC 12～24V ±10%，impulse（P-P）＜10%	
Directivity angle		≥2°	
Residual voltage		＜2V（Load Current：≤100mA）	
Current consumption		＜20mA	
Load current		≤100mA	
Circuit protection		Power reverse direction connection protection	
Response time		<2ms	
Indicator light		Output LED: Orange LED Power/stable: Green LED	
Connection		Cable 2m（PVC）	
Ambient temperature		Work：-10～+55℃；Store：-25～+70℃，(No dew condensation or icing allowed)	
Ambient humidity		Work：35～85%RH，Store：35～95%RH，（No dew condensation）	
Ambient illumination		Sunlight: <10,000Lx lamplight:<3,000Lx	
Withstand voltage		1000VAC，50/60Hz,1 min.between current-carrying parts and case	
Insolation resistance		＞20MΩ（DC500V megger）between current-carrying parts and case	
Anti-vibration		10~55Hz double-amplitude 1.5mmX,Y,Z 2h	
Impact resistance		500 m/s² (X, Y, Z directions, 3 times)	
Protection degree		IEC IP67	
Material	Housing	Nickel-copper alloy	
	Lens	PMMA	
	Rear	PC	