



Cylindrical diffuse reflection photoelectric sensor TFS series



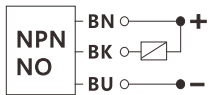
It is suitable for many purposes, with good performance and quality, Metal shell, easy to install and protect, with good sensitivity, Good adjustment and anti-interference performance

Model and specification description

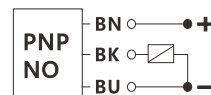
Type	TFS-181-08D4D	TFS-181-08D4D-M12
Voitage	NPN/PNP	
Sensing distance	10m/50cm/80cm	
Light source	Infrared LED	
Differential travel	10%max.of sensing distance	
Leakage current	30mA max.	
Response time	2ms max.	
Indicator light	Yellow LED / Green LED	
Protection circuits	Power supply reverse polarity, Output short-circuit protection	
Ambient illumination	Sunlight: 10000lx, Incandescent lamp: 3000lx	
Ambient temperature	-25~+55°C (with no icing)	
Ambient humidity	Operating 35~85°RH/Storage: 35~95°RH (with no condensation)	
Insulation resistance	20MΩ max. (DC500V) Between current-carrying parts and case	
Dielectric strength	AC1000Vmax. 50~60Hz 1min, Between current-carrying parts and case	
Repeatprecision	<5%	
Loadcurrent	<200mA	
Drop	<1.5V	
Vibration resistance	10~55Hz 1.5mmX, Y, Z, double amplitude for 2 hours each in X, Y and Z directions	
Shock resistance	500m/s ² 10 times each X, Y and Z directions	
Degree of protection	IEC IP67	
Material(Case/Lens)	PBT/ABS	

Example for output circuit

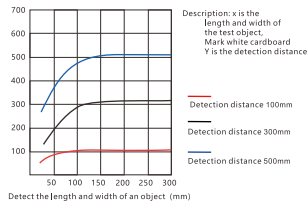
DC 3-wire, NPN



DC 3-wire, PNP

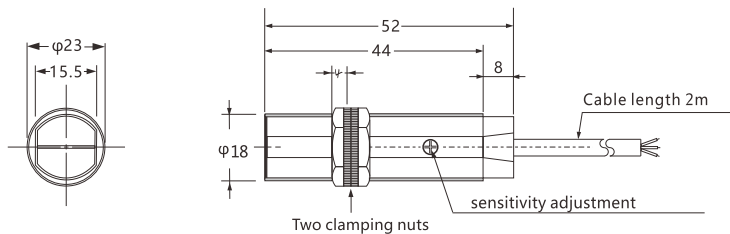


Detection chart



Mounting Dimensions(Unit:mm)

TFS-181-08D4D



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