Cylindrical retro reflective photoelectric sensor TFS series

[teotse]
PROCESS & AUTOMATION SYSTEMS

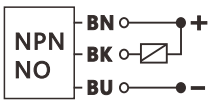
It is suitable for many purposes, with good performance and quality,Metal shell, easy to install and protect, with good sensitivity,Good adjustment and anti-interference performance

Model and specification description

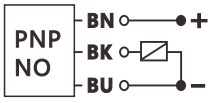
Type	TFS-182-20R4D	TFS-182-20R4D-M12
Voitage	NPN/PNP/DC:10-30VDC	
Sensing distance	2m	
Light source	Infrared LED	
Differential travel	10%max.of sensing distance	
Leakage current	25mA max.	
Response time	2ms max.	
Indicator light	Yellow LED / Green LED	
Protection circuits	Power supply reverse polarity, Output short-circuit protection	
Ambient illumination	Sunlight: 10000lx, Incandescent lamp: 3000lx	
Ambient temperature	-25~+55°C (with no icing)	
Ambient humidity	Operating35~85°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/s² 10 times each X , Y and Z directions	
Degree of protection	IEC IP65	
Material(Case/Lens)	Brass-nicke plated / PMMA	

Example for output circuit

DC 3-wire,NPN

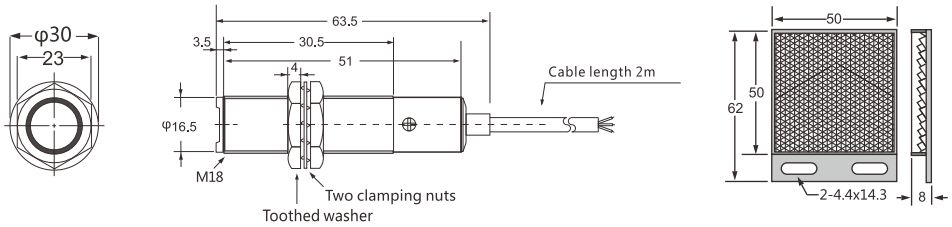
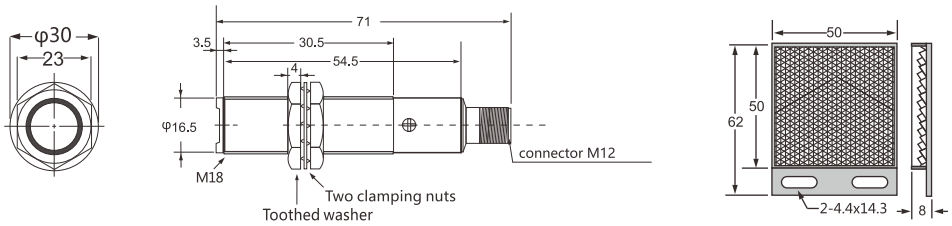


DC 3-wire,PNP



Mounting Dimensions(Unit:mm)

TFS-182-20R4D



TFS-182-20R4D-M12