

DPT Series

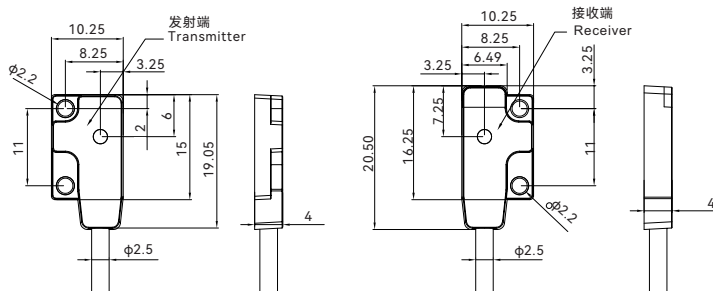


Model	
NPN L.on	DPT-T50NO-I
NPN D.on	DPT-T50NC-I
PNP L.on	DPT-T50PO-I
PNP D.on	DPT-T50PC-I
Basic Features	
Working principle	Photoelectric Sensors
Enclosure style	Flat square
How optics work	Counter-shooting
Detection distance	0~500mm
Spot size	N/A (Infrared)
Detection	φ1.5mm opaque body
Light source	IR LED 945nm (modulated)
Light	Output indicator: orange; Power indicator: Green
Sensitivity regulation	None
Electrical Data	
Switch mode	Light. on(light action) / Dark. on (light blocking action) Optional
Output mode	NPN or PNP open collector
Response time	≤1ms
Switching frequency	800Hz
Repeatability	<5%
Hysteresis(Return/ Response)	< 15%Sr
Operating voltage	10~30V DC±10%
Current consumption	≤20mA
Residual voltage	≤2.0V (50mA)
Load current	≤50mA (30VDC)
Insulation resistance	Between power terminal and housing ≥50MΩ (500VDC)
Resistance	1000VAC (50/60Hz), 1 minute between power terminal and housing
Protection circuits	Reverse polarity protection/surge protection/short circuit protection
Environmental Conditions	
Operating ambient temperature	-25~55°C (no freezing)
Storage temperature	30°C~+60°C
Humidity of the working environment	35~85%RH (no condensation)
Store humidity	35~95%RH (no condensation)
Ambient illumination	Incandescent lamp≤ 3000 Lux;LED light ≤1000/3000/200Lux; Sunlight ≤ 10000 Lux
Anti vibration –	10~50Hz, 0.5mm amplitude, XYZ 3 directions for 2 hours each
Ingress protection	IP67
Mechanical Data	
Maximum tightening torque	/
Connection	2m/3 core cable
Size	10.25x20.5x4.0mm
Material	PC
Weight	0.044kg
Fittings	Mounting screws

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Dimensions

DPT-T50-I



Unit: mm

Wiring Diagram

