

Ratings / Performance of E3Z-T61

Sensing method	Through-beam
Sensing distance	0 m to 15 m
Standard sensing object	Opaque 12 mm dia. Min.
Directional angle	Emitter:3 to 15 DEG Receiver:3 to 15 DEG
Light source	Infrared LED (Emission wave length: 870nm)
Power supply voltage	12 to 24 VDC -10% to 10% (ripple(p-p) :10% Max.)
Current consumption	Emitter: 15mA DC Max. Receiver: 20mA DC Max.
Control output (Output type)	NPN open collector output
Control output (Load current)	0 to 100 mA
Control output (Residual voltage)	(DC) 1 V Max. (Load current: Less than 10mA) (DC) 2 V Max. (Load current: 10 to 100 mA)
Operation mode	Light-ON/Dark-ON selectable
Load power supply voltage	26.4 VDC Max.
Protective circuit	Surge suppressor Output short-circuit protection Output reverse polarity protection Power supply reverse polarity protection
Response time	1ms Max.
Sensitivity setting	Single-turn adjustment
Ambient illuminance	Incandescent lamp:3000 lux Max., Sunlight:10000 lux Max.
Ambient temperature	Operating: -25 to 55 °C Storage: -40 to 70 °C (with no icing or condensation)
Ambient humidity	Operating: 35 to 85%RH Storage: 35 to 95%RH (with no condensation)
Insulation resistance	20 M OHM Min. at 500 VDC between charged parts and the case
Dielectric strength	1000 VAC at 50/60 Hz for 1 minute between charged parts and the

	case
Vibration resistance	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	500m/s ² for 3 times each in X, Y, and Z directions
Degree of protection	IEC60529: IP67
Applicable standard (EC Directive (Low Voltage Directive))	EN60947-5-2
Applicable standard (EC Directive (EMC))	EMI: EN60947-5-2 Emission Enclosure: EN55011 Group 1 class A EMS: EN60947-5-2 Immunity ESD: IEC61000-4-2 Immunity RF-interference: IEC61000-4-3 Immunity Burst: IEC61000-4-4
Conformed standard (EC Directive (CE marking))	Equipped
Connection method	Pre-wired models (Cable length: 2 m)
Indicator	Operation indicator(orange), Stability indicator(green), Power indicator(orange)
Weight (packed state)	Approx. 120 g
Tightening torque	0.5 N.mMax. (with M3 screw)
Material (case)	PBT
Material (lens)	Denatured Polyarylate
Accessories	Instruction manual