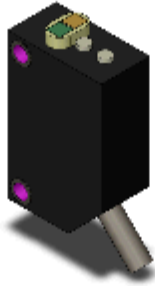


Compact Photoelectric Sensor with Built-in Amplifier

E3Z-D61 2M



Image

Diffuse-reflective, Sensing distance White paper 100 x 100 mm: 100 mm max., Light-ON/Dark-ON selectable, NPN, Pre-wired models, Infrared LED (860 nm)

Sensing method	Diffuse-reflective
Sensing distance	White paper 100 x 100 mm: 100 mm max.
Light source	Infrared LED (860 nm)
Connection method	Pre-wired models

Ratings/Performance

As of July 7, 2019

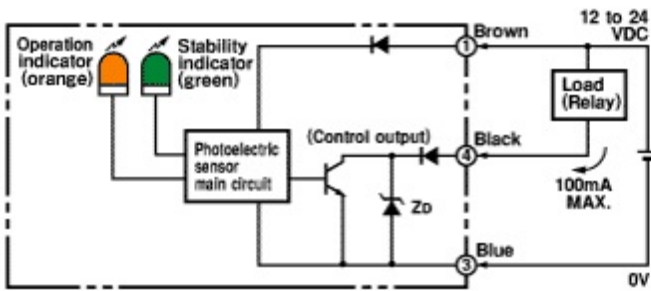
Shape	Square type
Sensing method	Diffuse-reflective
Sensing distance	White paper 100 x 100 mm: 100 mm max.
Differential distance	20% max. of sensing distance
Light source	Infrared LED (860 nm)
Power supply voltage	12 to 24 VDC±10% ripple (p-p) 10% max.
Current consumption	30 mA max.
Control output	NPN open collector 26.4 VDC max. 100 mA max. Residual voltage: 1 V max.
Operation mode	Light-ON/Dark-ON selectable
Protective circuit	Output short-circuit protection, Output reverse polarity protection, Power supply reverse polarity protection, Mutual interference prevention
Response time	Operate or reset: 1 ms max.
Sensitivity setting	Single-turn adjustment
Ambient illuminance	Incandescent lamp: 3000 lux max., Sunlight: 10000 lux max.
Ambient temperature (Operating)	-25 to 55°C
Ambient temperature (Storage)	-40 to 70°C
Ambient humidity	Operating: 35 to 85% Storage: 35 to 95%
Insulation resistance	20 MΩ min.(500 VDC megger)
Dielectric strength	1000 VAC 50/60 Hz 1 min
Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h
Shock resistance	Destruction: 500 m/s**23 times each in X, Y and Z directions
Degree of protection	IEC: IP67

Connection method	Pre-wired models (Cable length 2 m)
Indicator	Operation indicator (orange), Stability indicator (green)
Weight	Package: Approx. 65 g
Accessories	Instruction manual
Material	Case: Polybutylene terephthalate (PBT) Lens: Denatured Polyarylate

As of July 7, 2019

Output circuit diagram

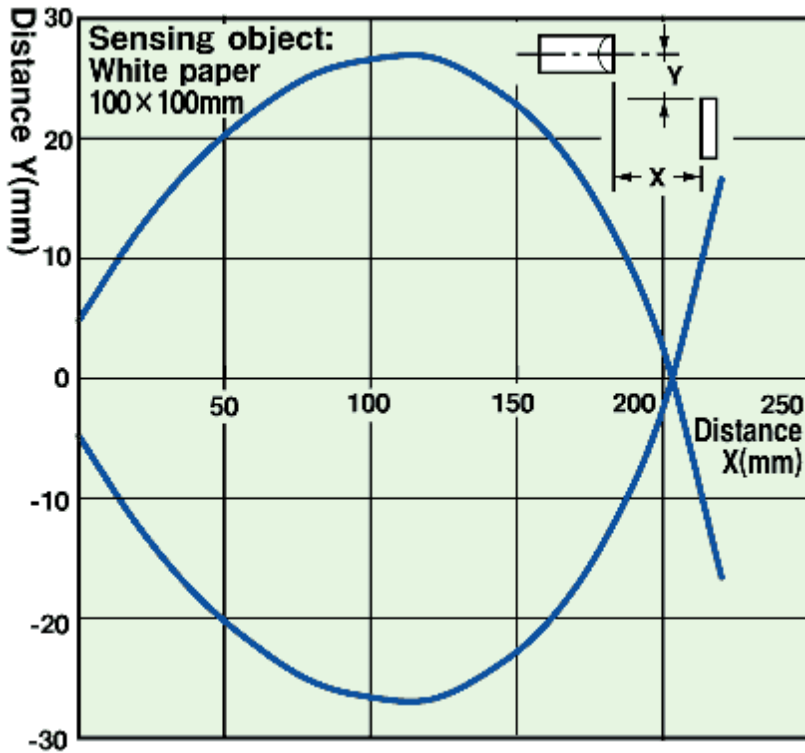
As of July 7, 2019



As of July 7, 2019

Operating range

As of July 7, 2019

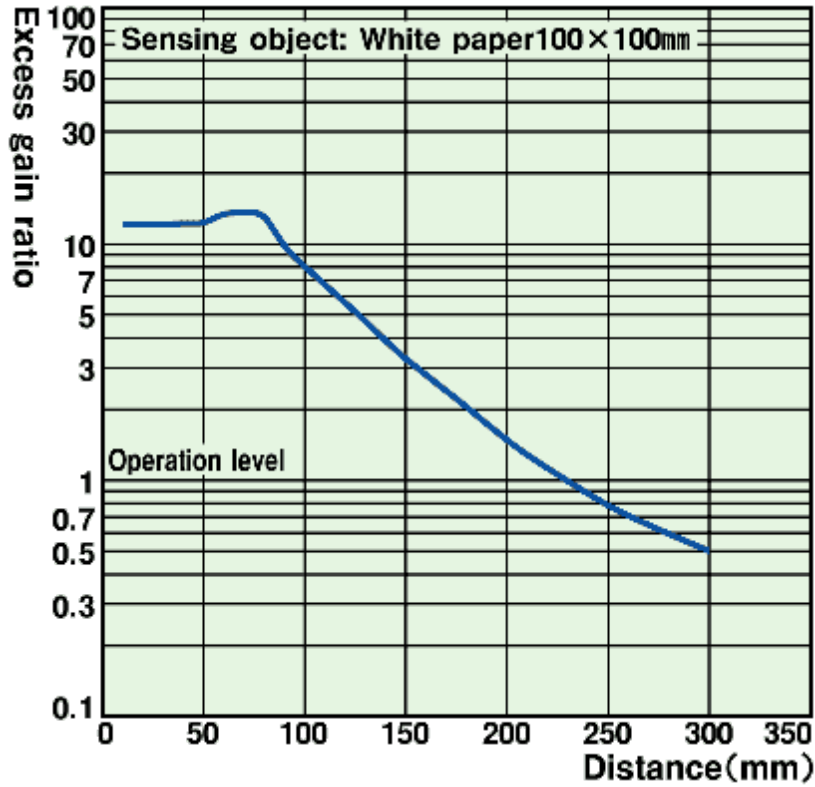


As of July 7, 2019

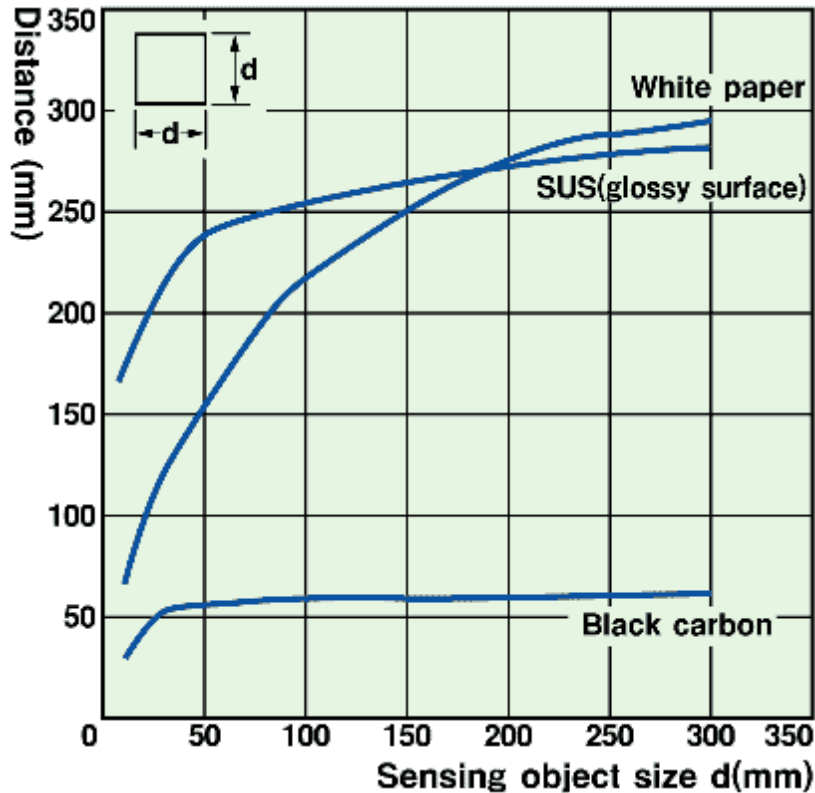
Setting distance

As of July 7, 2019

Excess gain ratio vs. setting distance



Sensing object size vs. setting distance



As of July 7, 2019

