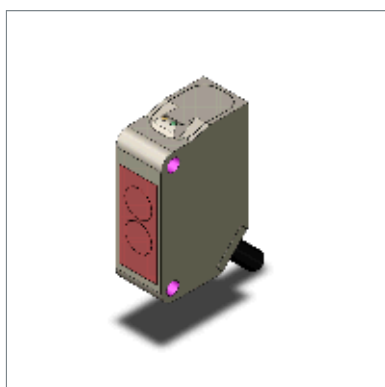


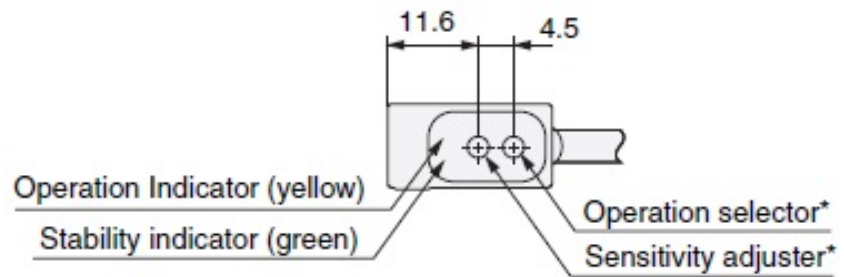
E3ZM-LS82H 2M



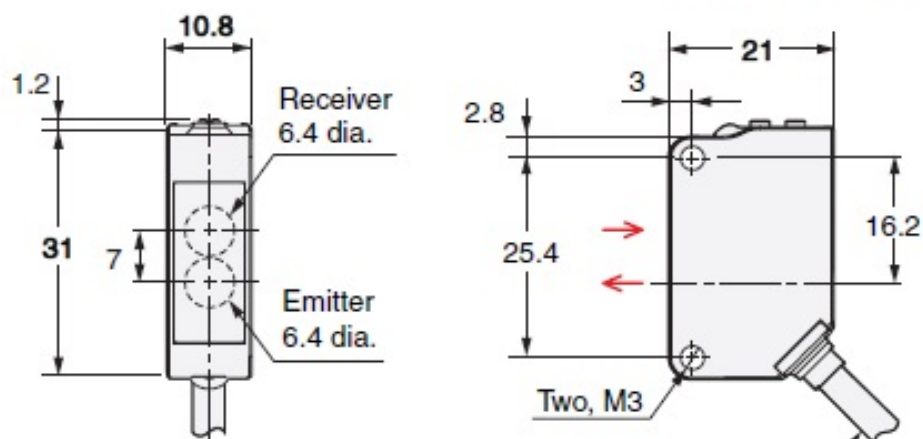
Ratings/Performance

Shape	Square type
Sensing method	BGS reflective (fixed distance)
Sensing distance	White paper 100 x 100 mm: 10 to 150 mm
Spot size	12 mm dia. max. (sensing distance: 150 mm)
Differential distance	15% max. of sensing distance
Reflectivity characteristic (black-white error)	10% max. of sensing distance
Light source	Red LED (660 nm)
Power supply voltage	10 to 30 VDC ripple (p-p) 10% included
Current consumption	25 mA max.
Control output	PNP open collector 30 VDC max. 100 mA max. Residual voltage: 2 V max.
Operation mode	Light-ON/Dark-ON selectable
Protective circuit	Output short-circuit protection, Output reverse polarity protection, Power supply reverse polarity protection
Response time	Operate or reset: 1 ms max.
Ambient illuminance	Incandescent lamp: 3,000 lx max. Sunlight: 10,000 lx max.
Ambient temperature range (Operating)	-25 to 55 °C (with no freezing or condensation)
Ambient temperature range (Storage)	-40 to 70 °C (with no freezing or condensation)
Ambient humidity range (Operating)	35 to 85 % (with no condensation)
Ambient humidity range (Storage)	35 to 95 % (with no condensation)
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 ² 3 times each in X, Y and Z directions
Degree of protection	IEC: IP67 IP69K (DIN40050-9)
Connection method	Pre-wired models (Cable length 2 m)
Indicator	Operation indicator (yellow), Stability indicator (green)
Weight	Package: Approx. 90 g
Accessories	Instruction manual
Material	Case: SUS316L Lens: Methacrylate resin Display: PEI (Polyetherimide) Seals: Fluorocarbon rubber

Dimensions

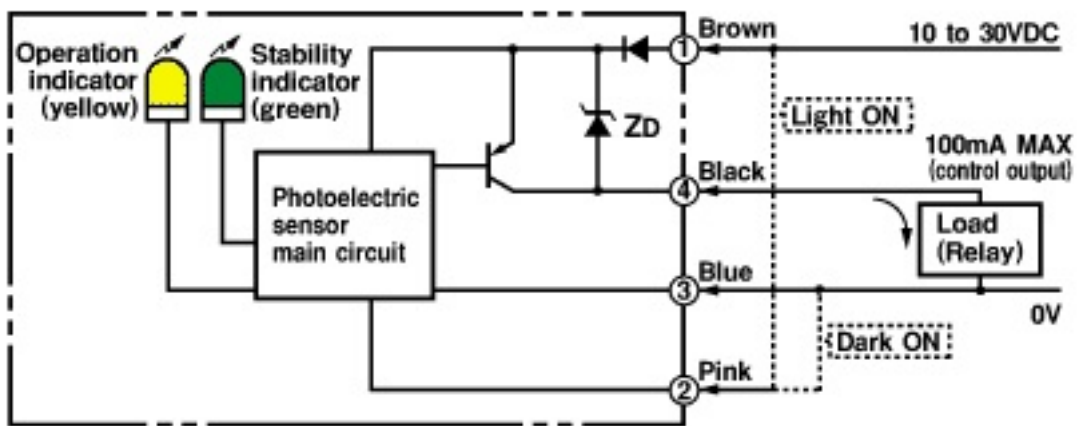


*No sensitivity adjuster and operation selector with BGS reflective model



4 dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.2 mm^2 (AWG24), Insulator diameter: 1.1 mm), Standard length: 2 m

Output circuit diagram

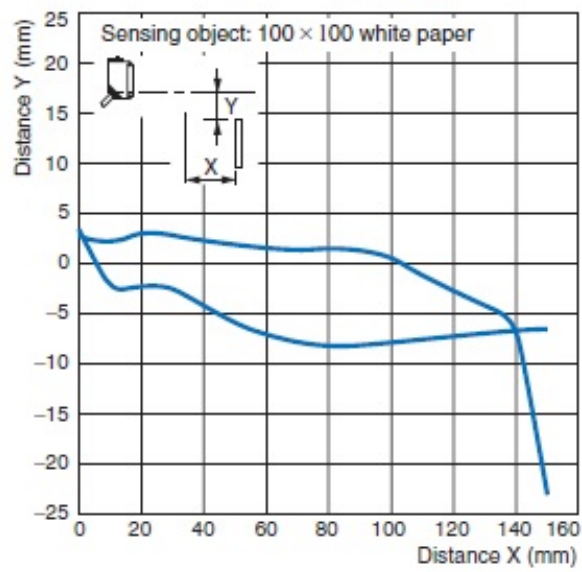


Timing chart

Operation mode	Timing chart	Mode select
Light ON	Operation indicator (yellow): ON during NEAR, OFF during FAR. Output transistor: ON during NEAR, OFF during FAR. Load (Relay): ON during NEAR, OFF during FAR. {Between blue(3) and black(4)}	Connect the pink wire(2) to the brown wire(1)
Dark ON	Operation indicator (yellow): OFF during NEAR, ON during FAR. Output transistor: OFF during NEAR, ON during FAR. Load (Relay): OFF during NEAR, ON during FAR. {Between blue(3) and black(4)}	Either leave the pink wire(2) open or connect it to the blue wire(3)

Operating range

E3ZM-LS□2H(LS□7H), Top to Bottom



E3ZM-LS□2H(LS□7H), Left to Right

