

Data sheet

Power supply	24VDC $\overline{\text{---}}$
Allowable voltage range	80 to 120% of rated voltage
Emitting property_Laser class	CLASS 1
Emitting property_Wavelength band	905nm
Emitting property_Max. pulse output power	75W
Angular resolution	0.4°
Aperture angle	90°
Object reflectivity	Min. 2%
Scanning mode	Motion and presence
Monitoring zone	0.3×0.3m to 5.6×5.6m (object reflectivity: at approx. 10%)
Min. size of the scanning target	<ul style="list-style-type: none"> · At detection distance of 3m: approx. W2.1×H2.1×L2.1cm · At detection distance of 5m: approx. W3.5×H3.5×L3.5cm · Object reflectivity: 90% (at Kodak Gray card R-27, white)
Power consumption	Max. 8W
Response time	Typ. 20 to 80ms+monitoring time
Input	<p>Photocoupler input: 1 (output test mode)</p> <ul style="list-style-type: none"> · [H]: min. 8VDC $\overline{\text{---}}$ (max. 30VDC $\overline{\text{---}}$), [L]: max. 3VDC · [H] operates as output test mode and outputs obstacle detection output and error status output
Output	<p>PhotoMOS relay output: 2 (obstacle detection output, error status output)</p> <ul style="list-style-type: none"> · Galvanic isolation, non-polarity · 30VDC / 24VAC, max. DC80mA (resistive load) · Output resistance: 30Ω · Switching time: t on=5ms, t off=5ms
Installation Laser scanner angle	-45 , 0 , 45°
Installation Bracket rotation angle	-5 to 5°
Installation Bracket tilt angle	-3 to 3°
Front contamination	Normal operation with max. 30% contamination of one material
Communication interface	Ethernet
Life expectancy	Max. 6.8 years (60,000 hours)
Insulation resistance	Over 5MΩ (at 500VDC megger)
Dielectric strength	500VAC 50/60Hz for 1 minute
Vibration	Max. 2G (18.7m/s ²)
Shock	30G/18ms
Environment_Ambient illumination	Sunlight: max. 100,000lx

Environment_Ambient temperature	-30 to 60°C
Environment_Ambient humidity	0 to 95%RH, storage: 0 to 95%RH
Material	Polycarbonate
Protection structure	IP67(IEC standard)
Cable_Power, I/O	Ø5mm, 8-wire, 5m (AWG 26, core diameter: 0.16mm, number of cores: 7, insulator out diameter: Ø1mm)
Cable_Ethernet	Ø5mm, 4-wire, 3m, shielded cable (AWG 26, core diameter: 0.16mm, number of cores: 7, insulator out diameter: Ø1mm)
Accessories	Bracket, M2.6×L6 Tapping screw (for fixing bracket rotation angle): 2, 3mm allen wrench
Component_PC program	atLidar (laser scanner program)
Korean Railway Standards	KRS SG 0068
Weight	Approx. 0.96kg(approx 0.58kg)

※ The monitoring zone may be changed by the sensitivity level setting.

※ 'Monitoring time' is able to be set with the remote control or atLidar.

※ Installation angle: Please refer to '■ Installation'.

※ Installation Bracket rotation angle: It represents alignment range of laser scanner and is able to be set within the range from -5 to 5 based on the mark line.

※ Communication interface: It is used for setting sensor positions, parameters, and monitoring status information.

※ Ambient temperature in power supplied status is -30 to 60°C and in power cut status is -10 to 60°C.

※ The weight includes packaging. The weight in parenthesis is for unit only.

※ The temperature or humidity mentioned in Environment indicates a non freezing or condensation.