GL-VM04LN

KEYENCE CORPORATION · GL-V series

FEATURES

Small & robust metal Type 4 safety light curtain, body protection type, 4 beam axes, NPN output, 160 mm total length.

Hardware

Safety light curtain:
Transmitter + Receiver set (Type 4 ESPE / AOPD)

Synchronization:
Optical synchronization

Light source:
Infrared LED (850 nm), Exempt Group (IEC62471)

Effective angular aperture:
up to ±2.5° (at 3 m or above)

Detection mode:
ON when all beam axes are received

Interference prevention:
up to 2 units by series connection and switch setting

Protection type:
Body protection

Minimum detectable object size:
ø45 mm

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Number of beam axes:
4

Beam axis spacing:
40 mm

Detection height:
120 mm

Total length:
160 mm

Detecting distance:
0.3 to 15 m

Response time (OSSD, channel 0, ON→OFF):
max. 4.1 ms

Communication

Built-in ports:
None

Protocols:
None

Communication expansion:
None

Electrical

Supply voltage:
24 VDC -20/+25%, ripple (P-P) 10% or less, Class 2

Maximum load current:
150 mA or less

Residual voltage (ON):
up to 2.5 V (5 m cable); OFF voltage: up to 2.0 V (5 m cable)

Leakage current:
up to 0.8 mA; max. load capacity: 0.8 µF; load wiring resistance: up to 2.5 Ω

Inputs:
short-circuit current approx. 3 mA

Safety standards:
IEC61496-1/-2 (Type 4 ESPE/AOPD), EN ISO13849-1 (Category 4, PL e), IEC61508 (SIL3), UL60947-1 / CSA C22.2 No.60947-1, UL1998

EMC:
IEC/EN61496-1, EN55011 Class A, FCC Part15B Class A, ICES-003 Class A

Protection circuit:
Supply reverse-connection, per-output short-circuit and surge protection

Current consumption (indicator ON):
Transmitter max. 54 mA; Receiver max. 68 mA (OSSD output current not included)

Control output (OSSD):
Transistor output x2 (NPN)

Environmental

Operating temperature:
-30 to +55 °C (No freezing)

Storage temperature:
-30 to +70 °C (No freezing)

Relative humidity:
up to 95 % RH (no condensation)

Ambient light:
Incandescent lamp 3,000 lux or less; Sunlight 20,000 lux or less

Protection rating:
IP65/IP67 (IEC60529)

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Overvoltage category:
II

Vibration resistance:
5 to 150 Hz, 1G, 10 cycles each in X/Y/Z

Shock resistance:
15 G, 6 ms pulses, 100 times each in X/Y/Z

Physical

Material:
Main unit Aluminum alloy; upper/lower case PPS (GF40%); front cover Polycarbonate, SUS304

Dimensions (H×W×D):
Not available

Weight:
Transmitter 120 g; Receiver 120 g

Lifecycle

Active; official Keyence production status confirmed via product/spec page (Last verified:
2026-09)