

GL-VM88HP

KEYENCE CORPORATION · GL-V series

FEATURES

Small & robust metal Type 4 safety light curtain, hand protection type, 88 beam axes, PNP output, 1760 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 $\pm 2.5^\circ$ (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:

Hand protection

Minimum detectable object size:

ø25 mm

Number of beam axes:

88

Beam axis spacing:

20 mm

Detection height:

1740 mm

Total length:

1760 mm

Detecting distance:

0.3 to 15 m

Response time (OSSD, channel 0, ON→OFF):

max. 7.5 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

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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 μ F; 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. 173 mA; Receiver max. 188 mA (OSSD output current not included)

Control output (OSSD):

Transistor output x2 (PNP)

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 1140 g; Receiver 1160 g

Lifecycle

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