

PZ-G41N

KEYENCE CORPORATION · PZ-G series

FEATURES

Built-in amplifier photoelectric sensor, diffuse reflective, long-range.

Hardware

Sensor type:

Diffuse Reflective, Long-range

Shape:

Rectangular

Detecting distance:

1 m maximum (When detecting 30 × 30 cm white paper)

Light source:

Red LED

Sensitivity adjustment:

1-turn trimmer (230°)

Response time:

500 µs maximum

Operation mode:

LIGHT-ON/DARK-ON (switch-selectable)

Indicators (LED):

Output: Orange LED, Stable operation: Green LED

Spot diameter:

Not available

Lens cover material:

Polyarylate (PAR)

Communication

Built-in ports:

None

Protocols:

None

Communication expansion:

None

Electrical

Supply voltage:

10 to 30 VDC nominal, including ripple (P-P) 10%

Current consumption:

34 mA or less

Output type:

NPN open collector

Control output:

Open collector output, 30 V maximum, 100 mA maximum, Residual voltage: 1 V maximum

Cable connection:

Cable (2 m)

Protection circuit:

Reversed polarity, overcurrent protection, surge absorber

Interference suppression:

Up to 2 units (polarization filters or automatic different frequency function)

Environmental

Operating temperature:

-20 to +55 °C (No freezing)

Relative humidity:

35 to 85 % RH (No condensation)

Protection rating:

IEC IP67 / NEMA 4A, 6, 12 / DIN IP69K

Ambient light resistance:

Incandescent lamp 5,000 lux maximum, Sunlight 20,000 lux maximum

Vibration resistance:

10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each X, Y, Z direction

Shock resistance:

1,000 m/s², 6 times in each X, Y, Z direction

Physical

Dimensions (H×W×D):

Not available

Weight:

Approx. 60 g (rectangular cable model; thrubeam transmitter: approx. 50 g)

Housing material:

Glass-fiber reinforced PBT

Mounting torque:

0.5 N·m maximum (mounting hole part)

Lifecycle

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

2026-09)