

LR-WF10

KEYENCE CORPORATION · LR-W series

FEATURES

Self-contained full-spectrum (white LED) color sensor, fiber type, cable type.

Hardware

Sensor type:

Self-contained full-spectrum (white LED) color/photoelectric sensor

Type:

Fiber type, 2 m cable type

Detecting distance:

Based on attached fiber head

Light source:

White LED

Min. spot diameter:

Based on attached fiber head

Response time:

250 μ s / 1 ms / 10 ms / 100 ms / 500 ms selectable

Timer:

OFF / ON-delay / OFF-delay / one-shot

Communication

Built-in ports:

None

Protocols:

IO-Link v1.1 / COM2 (38.4 kbps) on connector-type models

Communication expansion:

None

Electrical

Supply voltage:

10 to 30 VDC, including 10% ripple (P-P), Class 2 or LPS

Power consumption:

Current consumption 50 mA or less (no load) at 24 VDC; 90 mA or less (no load) at 12 VDC

Output type:

NPN open collector / PNP open collector selectable, 30 VDC or less, 50 mA or less, residual voltage 2 V or less, N.O./N.C. selectable

External input:

Tuning / transmission OFF selectable

Environmental

Operating temperature:

-20 to +45 °C (No freezing)

Storage temperature:

Not available

Relative humidity:

35 to 85 % RH (No condensation)

Protection rating:

IP65 (IEC60529)

Physical

Dimensions (H×W×D):

Not available

Weight:

Approx. 150 g (including cable)

Lifecycle

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