

INDUSTRIAL COMPONENT DATA

ES1-LW50L-N ES1 1029M ES1LW50LN OMRON Infrared thermosensor, -50-500 °C, 40/500 mm dia. field, 12-24 VDC, 4-..

Brand: OMRON | Manufacturer Part Number: ES1-LW50L-N



Manufacturer	OMRON
MPN / Reference	ES1-LW50L-N
Catalog number	ES1LW50LN
Category	Temperature probe
Minimum order	1 Pcs
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Product Overview

Infrared thermosensor, -50-500 °C, 40/500 mm dia. field, 12-24 VDC, 4-20 mA output, with laser pointer

STRUCTURED PRODUCT DATA

Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

Classification & Catalog Path

Catalog path OMRON > Temperature and Processes > Sensors

Additional Product Information

Flexible placement with slim cylindrical shape and long focus with a distance of 500 mm and area diameter of 80 mm. The SUS body and silicon lens resist ambient operating temperatures of up to 70°C and resist dust and water to the equivalent of IP67.

Fast measurement with high-speed response of 100 ms/90%.

Strong resistance to noise with output of 4 to 20 mA.

Specifications & ordering info

Ordering information

Specification (measuring temperature range)

Order code

0 to 400°C

ES1C-A40

Dimensions (unit: mm)

Ratings and Characteristics

Item

Model

ES1C

Power supply voltage

12 to 24 VDC

Operating voltage range

90% to 110% of rated voltage

Current consumption

70 mA max.

Measuring temperature range

0 to 400°C

Measurement accuracy

0 to 200°C: $\pm 2^{\circ}\text{C}$, 201 to 400°C: $\pm 1^{\circ}\text{C}$ (emissivity: 0.95)

Response time

100 ms/90%

Reproducibility

 $\pm 1^{\circ}\text{C}$ of reading value

Emissivity

0.95 fixed

Current output

4 to 20 mA DC, Load: 250 Ω max.

Ambient temperature range

Operating: 0 to 70°C, Storage: -20 to 70°C

(with no icing or condensation)

Ambient humidity range

Operating and storage: 35% to 85%

Vibration resistance (destruction)

1.5-mm amplitude at 10 to 55 Hz for 2 hours each

in the X, Y, and Z directions

Weight

180 g

Degree of protection

Equivalent to IP67

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / ES1-LW50L-N with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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