

INDUSTRIAL COMPONENT DATA

ZS-HLDS5T 2M ZS 0083E ZSHLDS5T2M OMRON Laser Sensor 50mm +/-5mm. 0.25 µm

Brand: OMRON | Manufacturer Part Number: ZS-HLDS5T 2M



Manufacturer	OMRON
MPN / Reference	ZS-HLDS5T 2M
Catalog number	ZSHLDS5T2M
Category	Optical distance sensor
Minimum order	1 Pcs
Document ID	EO-3995684E8F
Generated	2026-08-04

Product Overview

Laser Sensor 50mm +/-5mm. 0.25 µm

STRUCTURED PRODUCT DATA

Technical Specifications

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

Classification & Catalog Path

Catalog path	OMRON > Advanced sensors > ZS
--------------	-------------------------------

Additional Product Information

Highest resolution and dynamic sensing range for all surfaces
 Modular and scalable platform concept for up to 9 sensors
 Easy to use, install and maintain for all user levels
 Fast response time of 110 µs
 Multi-tasking capability - Manages up to 4 measurement tools in one controller
 Specifications & ordering info
 Ordering information
 Sensors
 ZS-HL-series sensor heads
 Optical system
 Sensing distance
 Beam shape
 Beam diameter
 Resolution1
 Order code

Regular reflective models

20±1 mm

Line beam

1.0 mm × 20 µm

0.25 µm

ZS-HLDS2T

25±2 mm

2.2 mm × 45 µm

0.6 µm

ZS-HLDS2VT

Diffuse reflective models

50±5 mm

1.0 mm × 30 µm

0.25 µm

ZS-HLDS5T

100±20 mm

3.5 mm × 60 µm

1 µm

ZS-HLDS10

600±350 mm

16 mm × 0.3 mm

8 µm

ZS-HLDS60

1500±500 mm

40 mm × 1.5 mm

500 µm

ZS-HLDS150

ZS-HL-series sensor heads (for nozzle gaps) also compatible with ZS-L controller

Optical system

Sensing distance

Beam shape

Beam diameter

Resolution2

Order code

Regular reflective models

10±0.5 mm

Line beam

900x25 µm

0.25 µm

ZS-LD10GT

15±0.75 mm

ZS-LD15GT

ZS-L-series sensor heads

Optical system

Sensing distance

Beam shape

Beam diameter

Resolution3

Order code

Regular reflective models

20±1 mm

Line beam

900 × 25 µm

0.25 µm

ZS-LD20T

Spot beam

25 µm dia.

ZS-LD20ST

40±2.5 mm

Line beam

2000 × 35 µm

ZS-LD40T

Diffuse reflective models

50±5 mm

Line beam

900 × 60 µm

0.8 µm

ZS-LD50

Spot beam

50 µm dia.

ZS-LD50S

80±15 mm

Line beam

900 × 60 µm

2 µm

ZS-LD80

130±15 mm

Line beam

600 × 70 µm

3 µm

ZS-LD130

200 ±50 mm

Line beam

900 × 100 µm

5 µm

ZS-...

REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send OMRON / ZS-HLDS5T 2M 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

Catalog-generated document. Product names, marks and specifications belong to their respective owners. Verify safety-critical, compatibility and certification requirements against the manufacturer documentation before purchase or installation.