

SDAT-MHS-M50-1L-SA-E-0.3-M8 Festo 50mm 4-20mA M8 Position Transmitter Datasheet



Brand: Festo

SKU: [1014021591868](#)

Category: Process Sensors

Price: **\$257.14**

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Product Description

Festo SDAT-MHS-M50-1L-SA-E-0.3-M8 is a T-slot compatible position transmitter featuring a 50 mm sensing range, 4-20 mA analog output, and a 0.3 m cable with an M8 4-pin connector. The unit operates on a 15 to 30 V DC supply and utilizes a Hall-effect sensor principle to provide continuous position feedback. Constructed with a reinforced polyamide and high-alloy stainless steel housing, it achieves IP65 and IP68 protection ratings. The internal electronics support IO-Link communication and provide a typical repetition accuracy of 0.1 mm.

SDAT-MHS-M50-1L-SA-E-0.3-M8 Specifications

Model Number: SDAT-MHS-M50-1L-SA-E-0.3-M8

Part Number: 1531265

Brand: Festo

Product Category: Position Transmitter

Measuring Principle: Magnetic Hall

Sensing Range: 50 mm

Analog Output: 4 - 20 mA

Switching Output: PNP

Switching Element Function: N/C or N/O contact, switchable

Operating Voltage: 15 to 30 V DC

Nominal Operating Voltage: 24 V DC

Electrical Connection: M8x1, 4-pin, A-coded, Cable with plug

Cable Length: 0.3 m

Communication Interface: IO-Link, I-Port

IO-Link Protocol Version: Device V 1.1

IO-Link Communication Mode: COM3 (230.4 kBaud)

Displacement Resolution: 0.05 mm

Repetition Accuracy: 0.1 mm

Typical Linearity Error: ± 0.25 mm

Max. Travel Speed: 3 m/s

Max. Output Current: 100 mA

Max. Switching Capacity DC: 2.7 W

Voltage Drop: 2.5 V

Max. Load Resistance Current Output: 500 Ohm

Protection Class: IP65, IP68

Ambient Temperature: -25 to 70 °C

Housing Material: PA-reinforced, High-alloy stainless steel, Wrought aluminium alloy

Mounting Type: Inserted into T-slot from above

Status Indicators: Green LED (Ready), Yellow LED (Status), Red LED (Out of range)

Certifications: RCM, c UL us Listed (OL), CE, UKCA

SDAT-MHS-M50-1L-SA-E-0.3-M8 Applications

Primary applications include integration into pneumatic cylinder stroke monitoring systems, automated assembly lines, and robotic end-effector positioning. Deployed within material handling sorters and CNC clamping verification units to provide precise feedback for closed-loop control.

Supplemental Images

