



DS4 Standard

957650077

DS4-10-0450-S12-JE

DETECTION AND MEASUREMENT AREA SENSOR

OVERVIEW

Versatile area sensors for detecting and measuring in various industrial applications. Conveniently configured using IO-Link and wirelessly programmable through AppGUI for detailed parameter adjustments and advanced setups.



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0.2...7 m Transparent objects (T = 0...50 °C; H ≤ 1.5 m): 10% (0.35 - 1.5 m) 20% (0.35 - 2.5 m) 30 % (0.35 - 4 m)
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Beams space	10 mm
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controlled height	450 mm
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number of rays	45
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Sensitivity adjustment	remote teach, IO-Link, AppGUI
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Detection capability	10 mm (with Teach-In), 14 mm (without Teach-In)
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Features and performances

Detection capability	0
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Application

Description	DS4-10-0450-S12-JE 10mm H=450mm Eth
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Outputs

Output type	PNP or NPN or Push-Pull , 0...10 V, 4..20 mA, IO-Link, Ethernet TCP/IP
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Output Function	Light array for detection and measurement
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Electrical data

Operating Voltage	19.2...28.8 Vdc
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No-Load supply current	360 mA (emitter and receiver)
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Leakage current	100 mA
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Output voltage drop	2.5 V @ IL=100 mA
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Time delay before availability	2.35 s
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	Infrared (850 nm) Emitter + Receiver
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Impulsive Overvoltage Protection	Yes
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Protection against inductive loads	Yes
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Mechanical data

Material	Aluminium / PBT
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Housing material	Aluminium
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Optic window material	PMMA
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Weight	1.4 Kg/m (single bar, without package)
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Connections	M12 5 poles + 200 mm length cable TPU (TX), M12 8 poles + 200 mm length cable TPU (RX), M12 4 poles D code + 150 mm length cable TPU (ETH)
Active Head Material	PMMA
Storage temperature	-30...+70 °C
Humidity	15...95 % (without freeze)

Test/Approvals

Shocks and vibrations	10 mm / 3g, 5 ... 150 Hz frequency, (EN 60068-2-6 / Class 3M7 IEC TR 60721-4-3); 25g x 6 ms x 600 (EN 60068-2-27 / Class 3M7 IEC TR 60721-4-3)
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Accessories

Supplied Accessories	Fixing brakets
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Generical Data

Dimensions	35 x 40 x 459
Operating Temperature	-30...+50°C (without freeze)
Mechanical Protection	IP65 IP67

HMI/UI

LED indicators	TX: Green (Power ON), Yellow (Emission range) Red (Test, failure, Firmware ongoing update), Blue (Emission range, Firmware update completed) RX: Green (Power ON), Yellow (Status output, Connection and teach-in active) Red (Hardware Errors, Invalid con
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