



DS4 Base

957650002

DS4-05-0450-B05-JA

DETECTION AND MEASUREMENT AREA SENSOR

OVERVIEW

Basic version of detection and measurement area sensors designed for simple applications. Reliable performance and ease of use ensure detection and measurement in industrial applications.



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0.2...5 m
Beams space	5 mm
controlled height	450 mm
number of rays	90
Sensitivity adjustment	High/Low emission (input emitter)

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Features and performances

Detection capability	10 mm
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Application

Description	DS4-05-0450-B05-JA Base 5mm H=450mm
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Outputs

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

Electrical data

Operating Voltage	19.2...28.8 Vdc
No-Load supply current	360 mA (emitter and receiver)
Leakage current	100 mA
Output voltage drop	2.5 V @ IL=100 mA
Time delay before availability	3.70 s
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	Infrared (850 nm) Emitter + Receiver
Impulsive Overvoltage Protection	Yes
Protection against inductive loads	Yes

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 5 poles + 200 mm length cable TPU (RX)
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Active Head Material	PMMA
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Storage temperature	-30...+70 °C
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Humidity	15...95 % (without freeze)
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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 brackets
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Generical Data

Dimensions	35 x 40 x 460.5 mm
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Operating Temperature	-30...+50°C (without freeze)
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Mechanical Protection	IP65 IP67
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HMI/UI

LED indicators

TX: Green (Power ON), Yellow (Emission range) Red (Test, failure), Blue (Emission range) RX: Green (Power ON), Yellow (Status output, Connection Active) Red (Hardware Errors, module occupied)

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