

DS3 CZUJNIK FOTOELEKTRYCZNY OBSZARU DO DETEKCJI I POMIARU

DS3-SD-015

Czujnik obszaru kurtyna, 150mm, 0,6m, PNP, 0-10V

- Measurement heights from 150 to 600 mm
- Crossed beam - digital output / parallel beam - analogue output
- Distance up to 1.5 m between the transmitter / receiver



OPIS PRODUKTU

The DS3 Curtains are used to detect, measure and check the position of objects, including transparent and small objects.

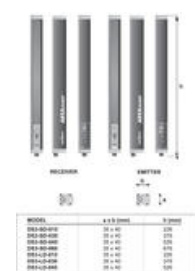
TECHNICAL DATA

Supply voltage	24 Vdc $\pm$ 15 %
Power consumption of transmitter	100 mA max.
Power consumption of receiver	100 mA max. without load
Outlets	1 PNP output; max. 10 k Ω load
	1 analogue output; 0 - 10 V (Δ V max. 5%)
Output	100 mA; short-circuit protection
Reaction time	Refer to selection table
Light source	Infrared 880 nm
Resolution with parallel beams smallest detectable object	DS3-SD: 0.5 mm
Resolution with parallel beams smallest detectable object	DS3-LD: 0.8 mm
Relative measurement precision (parallel beams)	$\pm$ 6 mm
Absolute measurement precision (parallel beams)	$\pm$ 3 mm
Dimensional difference between equally detected objects in the absolute teach-in mode	$\pm$ 6 mm
Dimensional difference between equally detected objects in the relative teach-in mode	Δ = 12 mm
Detection distance	0.2 - 0.6 m (SD vers.)
	0.6 - 1.5 m (LD vers.)
Receiver indication	Green POWER ON LED
	Orange OUT LED
	Red FAILURE/ERROR LED

Transmitter indication	Green POWER ON LED
Temp. range	- 10 ... + 55 °C
IP-class	IP 65 (EN 60529)
Vibration resistance	0.7 mm width, 10 ... 55 Hz amplitude, 10 sweep for X, Y, Z axis; 1 octave/min., (EN 60068-2-6)
Housing material	painted aluminium (shiny black RAL9005)
Optical material	PMMA
Connections	M12-4 pole contact for TX M12-8 pole contact for RX
Weight	DS3-015: 310 g. per unit DS3-030: 530 g. per unit DS3-045: 700 g. per unit DS3-060: 980 g. per unit

DIMENSIONS

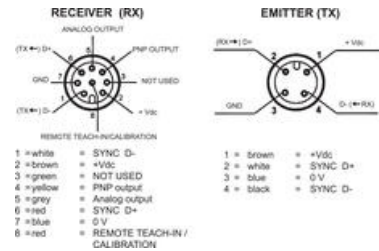
DS3



RECEIVER EMITTER

MODEL	4 x 3 (mm)	3 (mm)
DS3-SD-015	31 x 40	275
DS3-SD-030	31 x 40	275
DS3-SD-045	31 x 40	275
DS3-SD-060	31 x 40	275
DS3-SD-015	31 x 40	275
DS3-SD-030	31 x 40	275
DS3-SD-045	31 x 40	275
DS3-SD-060	31 x 40	275

CONNECTION



ORDER NUMBER

Order number	Distance	Detection height
DS3-SD-015	short	150 mm
DS3-SD-030	short	300 mm

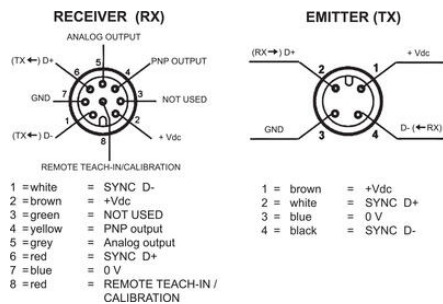
DS3-SD-045	short	450 mm
DS3-SD-060	short	600 mm
DS3-LD-015	long	150 mm
DS3-LD-030	long	300 mm
DS3-LD-045	long	450 mm
DS3-LD-060	long	600 mm

DATA SHEET

Data sheet	Download
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SPECYFIKACJA TECHNICZNA

Czas reakcji	3 ms
Dopuszczenia	CE, cULus
Masa	310 g
Materiał obudowy	Aluminium
Materiał soczewki	PMMA
Max. temperatura pracy	55 °C
Max. temperatura składowania	70 °C
Min. temperatura pracy	-10 °C
Min. temperatura składowania	-25 °C
Napięcie zasilania	24 V DC
Pobór mocy (max)	0,1 A
Podłączenie elektryczne	Złącze M12 8-pinowe, Złącze M12 4-pinowe
Prąd wyjściowy max.	0,1 A
Stopień ochrony IP	IP65
Technologia czujnika	Czujnik obszaru
Typ światła	IR LED
Wskaźnik LED	Tak
Wyjście	0–10 V, PNP
Wymiary	35 x 40 x 226
Wysokość detekcji	150 mm
Zasięg max	600 mm
Zasięg min	200 mm

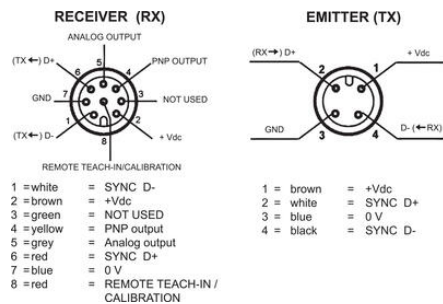


RECEIVER

EMITTER



MODEL	a x b (mm)	h (mm)
DS3-SD-015	35 x 40	226
DS3-SD-030	35 x 40	376
DS3-SD-045	35 x 40	526
DS3-SD-060	35 x 40	676
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DS3-LD-030	35 x 40	376
DS3-LD-045	35 x 40	526
DS3-LD-060	35 x 40	676



RECEIVER

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DS3-LD-060	35 x 40	676