



Position sensors and object recognition

O5 contrast sensor – for a splash of colour!



New contrast sensor with RGB transmitter LED.

- Automatic selection of the ideal colour of the transmitted light.
- Setting process saves time and cost during set-up.
- Simple detection of print marks and particularly flat objects.
- High switching frequency of 10,000 Hz.
- Extensive range of accessories.

High
switching
frequency

Rotatable
connector

TEACH-IN
for simple
operation.

**Easy-
to-use**

Application

With the O5 contrast sensor, print marks and very flat objects can be detected easily.

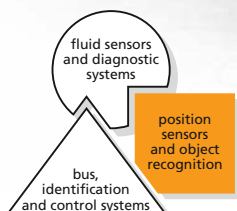
RedGreenBlue transmitter LED

During set-up the sensor automatically selects the optimum transmitter colour for good contrast. The sensor is ready for operation by just pressing the programming buttons twice.

In applications with a short mark-to-space ratio, O5K500 can switch reliably due to its high switching frequency.

Extensive range of accessories


An extensive range of accessories is available for time-saving and flexible fixing of the sensor.



Applications:
Packaging industry, food industry

System	Range [mm]	Light spot size [mm]	Output light-on / dark-on mode	Current rating [mA]	Switching frequency [Hz]	Current consumption [mA]	Order no.
M12 connector - 3-wire DC PNP / NPN							
contrast sensor	18...22	1.5 x 5	programmable	200	10000	< 50	O5K500





Accessories

Type	Description	Order no.
	Mounting set for clamp mounting, high-grade stainless steel, diecast zinc	E21211
	Mounting set for clamp mounting, high-grade stainless steel	E21212
	Clamp for mounting rod, Ø 12 mm, diecast zinc	E20717
	Clamp for mounting rod, Ø 12 mm, high-grade stainless steel	E21110
	Mounting rod, 100 mm long, Ø 12 mm, M10 thread, stainless steel	E20938
	Mounting rod, 200 mm, Ø 12 mm, M10 thread, stainless steel	E20940
	Cube for mounting on an aluminium profile, M10 thread, diecast zinc	E20951

Further technical data

		Type O5K
Type of light		red light 625 nm green light 525 nm blue light 465 nm
Operating voltage	[V]	10...36 DC
Voltage drop	[V]	< 2,5
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Operating temperature	[°C]	-25...60
Current rating	[mA]	200
Protection		IP 67, II
Materials	Housing Lens	PA PMMA

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Socket, M12, 2 m orange, PVC cable	EVT064
	Socket, M12, 5 m orange, PVC cable	EVT001
	Socket, M12, 2 m orange, PVC cable	EVT067
	Socket, M12, 5 m orange, PVC cable	EVT004

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