



CX0

CX0E1RP/05-016V

Area Sen, H=160mm-5mm pitch,E+R,PNP
AREA SENSORS WITH HIGH RESOLUTION AND COMPACT HOUSING

OVERVIEW

- Total crossbeam through all the optics
- Crossed area 160 and 320mm
- Pitch 5mm and 10mm
- Operating distance up to 3m (for 5mm pitch) and 6m (for 10mm pitch)
- 2 digital NPN and PNP outputs (teach-in model available only with PNP logic) NO/NC configurable
- Available with Teach in adjustment or with external trimmer
- High switching frequency to detection
- Intrinsic synchronism by cable (Teach-in models)



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	0,3 ... 3m
Beams space	5mm
controlled height	160mm
minimum detectable object	Ø 1,5mm

number of rays	33
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Sensitivity adjustment	Teach-in by wire
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Application

Function Principle	emitter/receiver
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Outputs

Output type	PNP
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Output Function	NO/NC
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Switching frequency	75Hz
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Electrical data

Operating Voltage	16,8... 30Vdc
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No-Load supply current	≤330mA
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Load current	< 100mA
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Leakage current	≤ 10μA
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Output voltage drop	< 1,5V @ 100mA
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Max ripple content	< 1,2Vpp
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LED indicators	Blue, red and yellow (emitter) - green, red and yellow (receiver)
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Time delay before availability	200ms
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
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Emission	Infrared (850nm)
Interference to external light	IEC EN 60947-5-2
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	20mm x 169mm x 35mm
Weight	450g
Housing Material	Aluminium
Connections	M12 4pin + cable PVC 200mm ; M12 5pin + cable PVC 200mm
Active Head Material	PMMA
Operating temperature	-10°C...+ 55° C (without freeze)
Storage temperature	- 25°C...+ 60° C (without freeze)

Test/Approvals

Approvals	CE, cULus
EMC compatibility	IEC 60947-5-2
Shocks and vibrations	IEC EN 60947-5-2
Degree of protection	IP67

Accessories

Supplied Accessories	ST151 fixing kit
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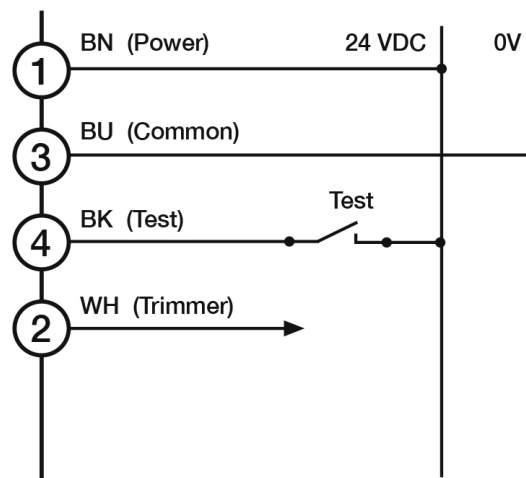
Generical Data

Dimensions	169x36x20
Operating Temperature	-10°C...+ 55° C (without freeze)
Mechanical Protection	IP67

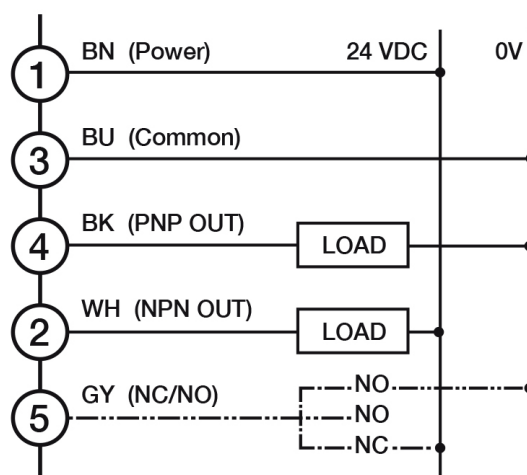
CONNECTIONS

Eletrical diagram

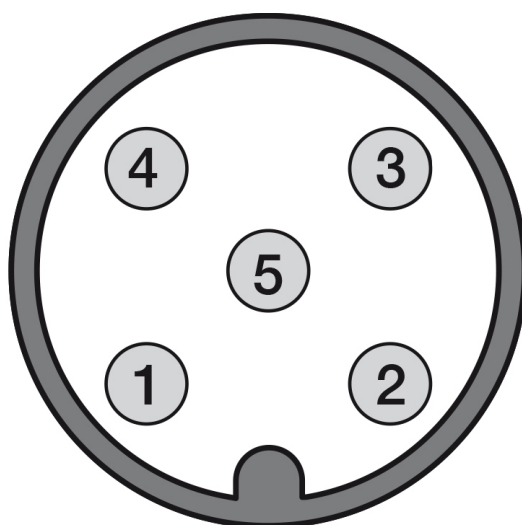
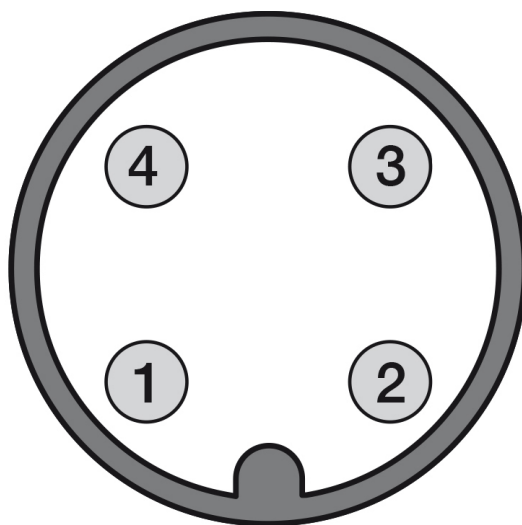
CX0E0



CX0BP

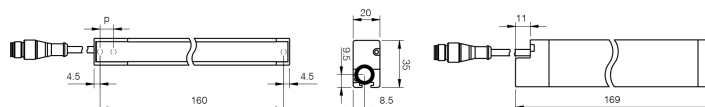


Connector



OTHERS

Dimensions



$$H \text{ (barrier height)} = h \text{ (controlled height)} + 9 \text{ mm}$$

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