CQ55 series

15 x 35 x 55 mm cubic capacitive sensors

features

- **DC supply voltage**
- **Adjustable sensitivity**
- **Flat polycarbonate plastic housing**



web contents

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code description

CQ 55 / B P - 3 E

series	CQ	Capacitive sensor (rectangular)
dimens.	55	55 x 35 x 15 mm
output state	B	NO + NC complementary output
output logic	P	PNP logic
	N	NPN logic
distance	3	Long distance 4...25 mm (shielded 16 mm - unshielded 25 mm)
connect.	A	Cable exit
	E	M12 plug exit

available models

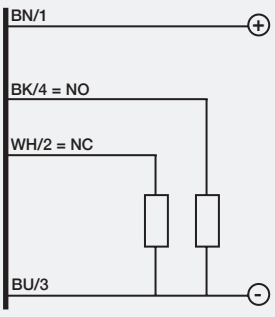
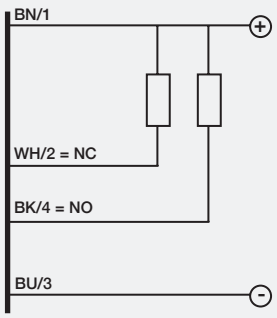
supply	installation	distance (mm)	connection	NPN NO + NC	PNP NO + NC
10...40 Vcc	shielded / unshielded	4...25	2 m cable	CQ55/BN-3A	CQ55/BP-3A
			M12 plug	CQ55/BN-3E	CQ55/BP-3E

technical specification

according to IEC EN 60947-5-2

	CQ55/**-3*
	
nominal sensing distance Sn	25 mm
hysteresis	≤ 20%
repeatibility	5%
operating voltage	5 Vdc
max ripple content	≤ 10 %
no-Load supply current	≤ 10 mA
load current	≤ 200 mA
leakage current	≤ 10 µA
output voltage drop Ud	2..5 V max @ IL= 200 mA
output type	NPN or PNP - NO + NC
switching frequency	50 Hz
power on delay	≤ 100 ms
power supply protections	polarity reversal, impulsive overvoltage
output protection	autoreset short circuit, overvoltage
sensitivity adjustment	●
storage temperature	-40 ... +85° C
operating temperature range	-25 ... +80° C (without freeze)
temperature drift	≤ 20 %
EMC	in conformity with the EMC Directive, according to EN 60947-5-2
protection degree	IP67 (EN 60529) NEMA 1,3,4,6,13
LEDs	yellow (output status LOn/DOn)
housing material	PC
active head material	PC
weight	65 g connector / 150 g cable

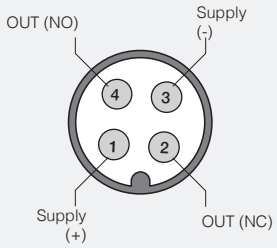
electrical diagrams of connections

PNP	NPN
	

BN	brown
BU	blue
BK	black
WH	white

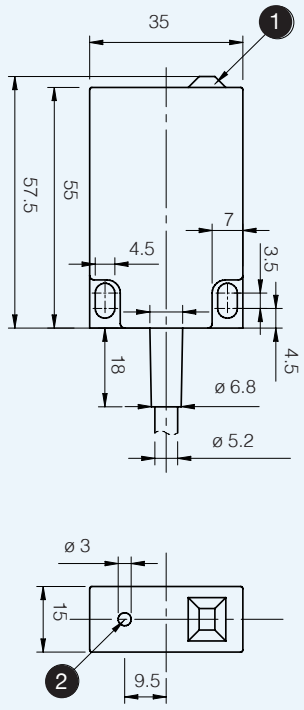
plug

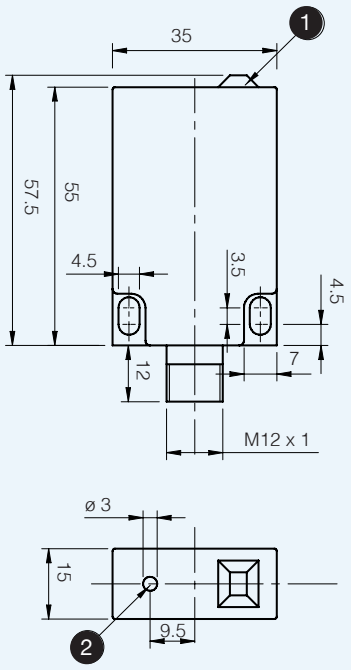
M12 CQ55/**-E



dimensions (mm)

CQ55/**-3A	CQ55/**-3E





1 LED 2 TRIMMER