

Capacitive Sensors for Object Detection

Standard sensors, block designs, DC 3-wire, 16×34×8 mm MicroBox



Capacitive sensors

Capacitive sensors for object detection
Mini-sensors

Standard sensors

Capacitive sensors for level detection

Capacitive sensors with special properties

Capacitive sensors for analog distance measurement

Accessories for capacitive sensors

Size	16×34×8 mm MicroBox		16×34×8 mm MicroBox	
Installation type	Flush		Flush	
Rated switching distance s_n	1...8 mm		1...8 mm	
PNP, NO	Ordering code	BCS0055 ^②	BCS0051 ^①	
	Part number	BCS R08RR01-PSM80C-EP00,2-GS49	BCS R08RR01-PSM80C-EP02	
PNP, NC	Ordering code	BCS0056 ^⑦	BCS0052 ^⑥	
	Part number	BCS R08RR01-POM80C-EP00,2-GS49	BCS R08RR01-POM80C-EP02	
NPN, NO	Ordering code	BCS0057 ^④	BCS0053 ^③	
	Part number	BCS R08RR01-NSM80C-EP00,2-GS49	BCS R08RR01-NSM80C-EP02	
NPN, NC	Ordering code	BCS0058 ^⑩	BCS0054 ^⑧	
	Part number	BCS R08RR01-NOM80C-EP00,2-GS49	BCS R08RR01-NOM80C-EP02	
Supply voltage U_B	12...30 V DC		12...30 V DC	
Voltage drop U_d at I_e	≤ 1.5 V		≤ 1.5 V	
Rated insulation voltage U_i	75 V DC		75 V DC	
Output current max.	50 mA		50 mA	
No-load supply current I_0 max.	≤ 10 mA		≤ 10 mA	
Polarity reversal protected/output miswiring protected/short-circuit protected	Yes/Yes/Yes		Yes/Yes/Yes	
Ambient temperature T_a	-30...+70 °C		-30...+70 °C	
Switching frequency f	100 Hz		100 Hz	
Output function indicator	Yellow LED		Yellow LED	
Degree of protection as per IEC 60529	IP 67		IP 67	
Material	Housing	PP	PP	
	Sensing surface	PP	PP	
	Cover	PP	PP	
Connection	0.2 m PUR cable with M8 3-pin connector		2 m PUR cable, 3×26 AWG	
Suggested mating cable	BCC M313-0000-10-001-PX43T2-050			

① = Connection-Switching diagram, see page 849.

Additional cable lengths on request.

