Capacitive Sensors for Object Detection

Standard sensors, cylinder designs, DC 3-wire, M12x1







Size		**M12×1**	**M12×1**	**M12×1**
Installation type		Flush	Flush	Flush
Rated switching distance s_n		**1…4 mm**	**1…4 mm**	**1…4 mm**
PNP, NO	**Ordering code**	**BCS00P0** ②	**BCS00R4** ①	**BCS00PJ** ②
	Part number	BCS M12B4G2-PSC40D-S04K	BCS M12B4I1-PSC40D-EP02	BCS M12BBG2-PSC40D-S04K
PNP, NC	**Ordering code**	**BCS00P1** ⑥	**BCS00P8** ⑤	**BCS00PK** ⑥
	Part number	BCS M12B4G2-POC40D-S04K	BCS M12B4I1-POC40D-EP02	BCS M12BBG2-POC40D-S04K
NPN, NO	**Ordering code**	**BCS00P2** ④	**BCS00P9** ③	**BCS00PL** ④
	Part number	BCS M12B4G2-NSC40D-S04K	BCS M12B4I1-NSaC40D-EP02	BCS M12BBG2-NSC40D-S04K
NPN, NC	**Ordering code**	**BCS00P3** ⑨	**BCS00PA** ⑧	**BCS00PM** ⑨
	Part number	BCS M12B4G2-NOC40D-S04K	BCS M12B4I1-NOC40D-EP02	BCS M12BBG2-NOC40D-S04K
Supply voltage U_B		10... 30 V DC	10... 30 V DC	10... 30 V DC
Voltage drop U_d at I_e		≤ 1.5 V	≤ 1.5 V	≤ 1.5 V
Rated insulation voltage U_i		75 V DC	75 V DC	75 V DC
Output current max.		100 mA	100 mA	100 mA
No-load supply current I_0 max.		≤ 15 mA	≤ 15 mA	≤ 15 mA
Polarity reversal protected/output miswiring protected/ short-circuit protected		Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Ambient temperature T_a		–25…+85 °C	–25…+85 °C	–25…+85 °C
Switching frequency f		100 Hz	100 Hz	100 Hz
Supply voltage/Output function indicator		Green LED/Yellow LED	Green LED/Yellow LED	Green LED/Yellow LED
Degree of protection as per IEC 60529		IP 67	IP 67	IP 67
Material	Housing	Stainless steel	Stainless steel	PBT
	Sensing surface	PBT	PBT	PBT
	Cover	PA 12, PBT	PA 12	PA 12, PBT
Connection		M12 connector, 4-pin	2 m PUR cable, 3×26 AWG	M12 connector, 4-pin
Suggested mating cable		BCC M415-0000-1A-003-VX44T2-050-C013		BCC M415-0000-1A-003-VX44T2-050-C013

① = Connection-Switching diagram, see page 849.

Additional cable lengths on request.

