

# Capacitive Sensors for Object Detection

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



Size	M12x1	M12x1	M12x1
Installation type	Flush	Flush	Flush
Rated switching distance $s_n$	1...4 mm	1...4 mm	1...4 mm
PNP, NO	<b>Ordering code</b>	<b>BCS00P0</b> <sup>②</sup>	<b>BCS00R4</b> <sup>①</sup>
	Part number	BCS M12B4G2-PSC40D-S04K	BCS M12B4I1-PSC40D-EP02
PNP, NC	<b>Ordering code</b>	<b>BCS00P1</b> <sup>⑥</sup>	<b>BCS00P8</b> <sup>⑤</sup>
	Part number	BCS M12B4G2-POC40D-S04K	BCS M12B4I1-POC40D-EP02
NPN, NO	<b>Ordering code</b>	<b>BCS00P2</b> <sup>④</sup>	<b>BCS00P9</b> <sup>③</sup>
	Part number	BCS M12B4G2-NSC40D-S04K	BCS M12B4I1-NSaC40D-EP02
NPN, NC	<b>Ordering code</b>	<b>BCS00P3</b> <sup>⑨</sup>	<b>BCS00PA</b> <sup>⑧</sup>
	Part number	BCS M12B4G2-NOC40D-S04K	BCS M12B4I1-NOC40D-EP02
Supply voltage $U_B$	10... 30 V DC	10... 30 V DC	10... 30 V DC
Voltage drop $U_d$ at $I_e$	$\leq 1.5$ V	$\leq 1.5$ V	$\leq 1.5$ 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.	$\leq 15$ mA	$\leq 15$ mA	$\leq 15$ 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
	Sensing surface	PBT	PBT
	Cover	PA 12, PBT	PA 12
Connection	M12 connector, 4-pin	2 m PUR cable, 3x26 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.

