

# DC 3-/4-wire Inductive Block Sensors

## Block housings, 20×32×8 mm R01



Housing size		20×32×8 mm R01	20×32×8 mm R01	20×32×8 mm R01
Installation type (observe instructions in the Basic Information chapter)		Flush	Flush	Flush
Rated switching distance $s_n$		7 mm	7 mm	7 mm
Assured switching distance $s_a$		0...5.6 mm	0...5.6 mm	0...5.6 mm
Sensing distance		1X	1X	1X
PNP, NO	<b>Ordering code</b>	<b>BES02PT</b>		
	Part number	BES R01ZC-PSC70B-BP00.2-GS04-101		
PNP, complementary	<b>Ordering code</b>		<b>BES01W2</b>	<b>BES0314</b>
	Part number		BES R01ZC-PAC70B-BP00.2-GS04	BES R01ZC-PAC70B-BP00.2-GS04-107
NPN, complementary	<b>Ordering code</b>		<b>BES01UZ</b>	
	Part number		BES R01ZC-NAC70B-BP00.2-GS04	
Supply voltage $U_B$		10...30 V DC	10...30 V DC	10...30 V DC
Voltage drop $U_d$ at $I_e$ max.		2.5 V	2.5 V	2.5 V
Rated insulation voltage $U_i$ (protection class)		75 V DC	75 V DC	75 V DC
Rated operating current $I_e$		200 mA	200 mA	200 mA
Polarity reversal protected/transposition protected/short-circuit protected		Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Ambient temperature $T_a$		-25...+70°C	-25...+70°C	-25...+70°C
Switching frequency $f$ max.		150 Hz	150 Hz	150 Hz
Output function indicator		Yellow LED	Yellow LED	Yellow LED
Degree of protection as per IEC 60529		IP 67	IP 67	IP 67
Approvals		CE, cULus	CE, cULus	CE, cULus
Material	Housing	Cast zinc	Cast zinc	Cast zinc
	Sensing surface	<b>With ceramic coating</b>	PA 12	<b>With ceramic coating</b>
Connection		0.2 m PUR cable with M12 connector, 4-pin	0.2 m PVC cable with M12 connector, 4-pin	0.2 m PUR cable with M12 connector, 4-pin
Suggested mating cable		BCC M415-0000-1A-003-EX44T2-020	BCC M415-0000-1A-003-EX44T2-020	BCC M415-0000-1A-003-EX44T2-020

See technical section (page 963-966) for installation instructions.

For wiring diagram see page 958.

**Additional cable lengths and PUR cable jacket material available on request.**

**Note: R01 Steelface sensors are located on page 669.**

