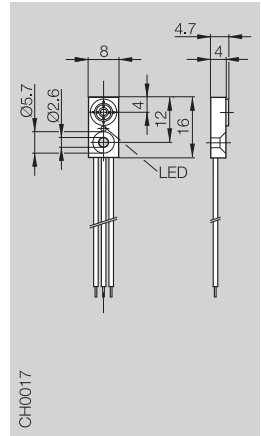
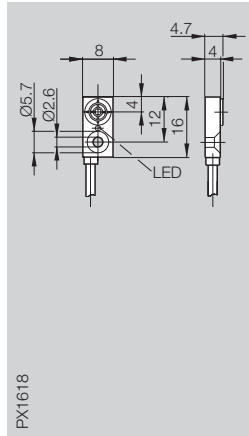
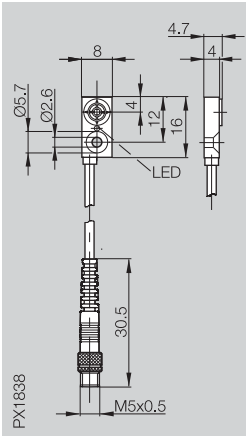
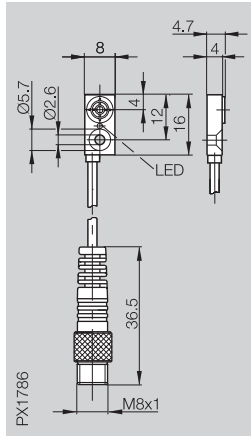


Inductive Sensors

DC 3-wire
Block style housings
 s_n 1.5 mm

Housing size	8×16×4 mm R04	8×16×4 mm R04	8×16×4 mm R04	8×16×4 mm R04
Mounting (see notes starting p. 1.0.11)	flush	flush	flush	flush
Rated operating distance s_n	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Assured operating distance s_a	0...1.2 mm	0...1.2 mm	0...1.2 mm	0...1.2 mm



PNP	NO	①	BES R04KC-PSC15B-EP00,13-GS49	BES R04KC-PSC15B-EP00,2-GS26	BES R04KC-PSC15B-EV02	BES R04KC-PSC15B-LV00,3
	NC	②	BES R04KC-POC15B-EP00,13-GS49	BES R04KC-POC15B-EP00,2-GS26	BES R04KC-POC15B-EV02	
NPN	NO	④	BES R04KC-NSC15B-EP00,13-GS49	BES R04KC-NSC15B-EP00,2-GS26	BES R04KC-NSC15B-EV02	
	NC	⑤	BES R04KC-NOC15B-EP00,13-GS49	BES R04KC-NOC15B-EP00,2-GS26	BES R04KC-NOC15B-EV02	

Supply voltage U_B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Voltage drop U_d at I_e	≤ 3 V	≤ 3 V	≤ 3 V	≤ 3 V
Rated insulation voltage U_i	75 V DC	75 V DC	75 V DC	75 V DC
Rated operational current I_e	100 mA	100 mA	100 mA	100 mA
No-load supply current I_0 max.	≤ 12 mA	≤ 12 mA	≤ 12 mA	≤ 10 mA
Polarity reversal protected	no	no	no	no
Short circuit protected	yes	yes	yes	yes
Repeat accuracy R	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %
Ambient temperature range T_a	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
Switching frequency f	600 Hz	600 Hz	600 Hz	600 Hz
Utilization category	DC 12	DC 12	DC 12	DC 12
Function indicator	yes	yes	yes	yes
Degree of protection per IEC 60529	IP 67	IP 67	IP 67	IP 67
Housing material	PA 6	PA 6	PA 6	PA 6
Material of sensing face	PA 6	PA 6	PA 6	PA 6
Connection	0.13 m PUR cable with connector	0.2 m PUR cable with connector	2 m PVC cable	3×0.3 m single leads PVC
No. of wires × cross-section			3×0.09 mm ²	3×0.09 mm ²
Approval	cULus	cULus	cULus	cULus
Recommended connector	BKS-_ 48	BKS-B 25		

① Wiring diagrams see page 1.0.6

Other cable lengths on request.



8x16x4 mm, 10x30x6 mm

Inductive Sensors

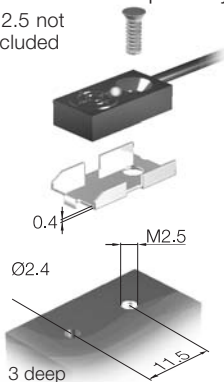
DC 3-wire
Block style housings
s_n 2.5 mm, 3 mm

8x16x4 mm R04 non-flush 2.5 mm 0...2 mm	8x16x4 mm R04 non-flush 2.5 mm 0...2 mm	10x30x6 mm R03 flush 3 mm 0...2.4 mm	10x30x6 mm R03 flush 3 mm 0...2.4 mm
BES R04KC-PSC25F-EP00,3-GS49	BES R04KC-PSC25F-EV02	BES R03KC-PSC30B-BP00,3-GS49	BES R03KC-PSC30B-EP02 BES R03KC-POC30B-EP05
			BES R03KC-NSC30B-EP05 BES R03KC-NOC30B-EP05
10...30 V DC ≤ 2.5 V 75 V DC 100 mA ≤ 10 mA no yes	10...30 V DC ≤ 2.5 V 75 V DC 100 mA ≤ 10 mA no yes	5...30 V DC ≤ 1.5 V 75 V DC 100 mA ≤ 6 mA no yes	5...30 V DC ≤ 1.5 V 75 V DC 100 mA ≤ 6 mA no yes
≤ 5 % -25...+70 °C 150 Hz DC 12 yes	≤ 5 % -25...+70 °C 150 Hz DC 12 yes	≤ 1 % -25...+70 °C 1000 Hz DC 12 yes	≤ 1 % -25...+70 °C 1000 Hz DC 12 yes
IP 67	IP 67	IP 67	IP 67
PA 6 PA 6	PA 6 PA 6	PA 6 PA 6	PA 6 PA 6
0.3 m PUR cable with connector	2 m PVC cable	0.3 m PUR cable with connector	2 m/5 m PUR cable
cULus BKS-_ 48	3x0.09 mm ² cULus	cULus BKS-_ 48	3x0.14 mm ² cULus

1.1

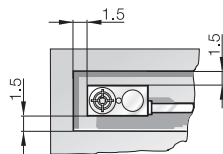
Mounting bracket BES R04-MF-01 for BES R04... with s_n 1.5 mm

please order separately
M2.5 not included



Installation note for BES R04... with s_n 2.5 mm

Aluminum: full flush mountable
Steel: surrounding 1.5 mm clear zone



5

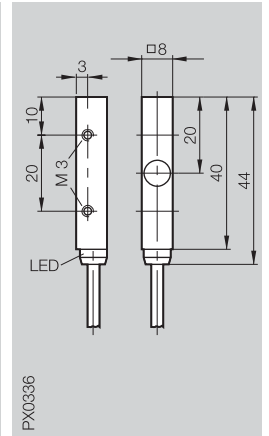
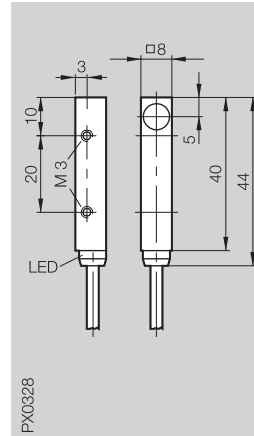
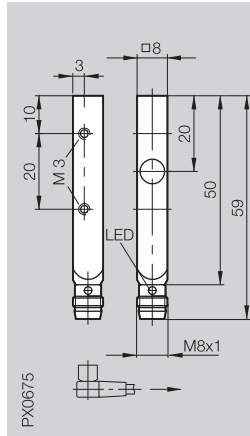
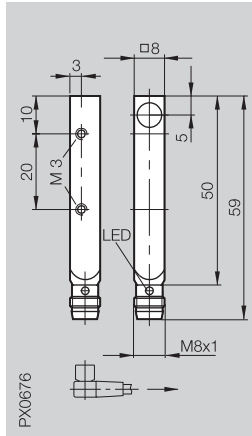
Connectors ...
page 5.2 ...

Inductive Sensors

DC 3-wire
Block style housings
 s_n 1.5 mm

8x8x59 mm, 8x8x44 mm

Housing size	8x8x59 mm	8x8x59 mm	8x8x44 mm	8x8x44 mm
Mounting (see notes starting p. 1.0.11)	flush	flush	flush	flush
Rated operating distance s_n	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Assured operating distance s_a	0...1.2 mm	0...1.2 mm	0...1.2 mm	0...1.2 mm



PNP	NO	①	BES 516-300-S166-S49	BES 516-300-S202-S49	BES 516-300-S166-02	BES 516-300-S202-02
	NC	②	BES 516-300-S180-S49		BES 516-300-S180-02	
NPN	NO	④	BES 516-300-S170-S49	BES 516-300-S254-S49	BES 516-300-S170-02	
	NC	⑤				

Supply voltage U_B	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Voltage drop U_d at I_e	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V
Rated insulation voltage U_i	75 V DC	75 V DC	75 V DC	75 V DC
Rated operational current I_e	200 mA	200 mA	200 mA	200 mA
No-load supply current I_0 max.	≤ 15 mA	≤ 15 mA	≤ 15 mA	≤ 12 mA
Polarity reversal protected	yes	yes	yes	yes
Short circuit protected	yes	yes	yes	yes
Repeat accuracy R	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %
Ambient temperature range T_a	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
Switching frequency f	5000 Hz	5000 Hz	5000 Hz	5000 Hz
Utilization category	DC 13	DC 13	DC 13	DC 13
Function indicator	yes	yes	yes	yes
Degree of protection per IEC 60529	IP 67	IP 67	IP 67	IP 67
Housing material	GD-Zn coated	GD-Zn coated	GD-Zn coated	GD-Zn coated
Material of sensing face	POM	POM	POM	POM
Connection	Connector	Connector	2 m PVC cable	2 m PVC cable
No. of wires × cross-section			3×0.14 mm ²	3×0.14 mm ²
Approval	cULus	cULus	cULus	cULus
Recommended connector	BKS- 48/BKS- 49	BKS- 48/BKS- 49		

① Wiring diagrams see page 1.0.6
Switching distance ■■ see page 1.0.10

For sensors with cable, other lengths and PUR quality are available on request.

→ Connector orientation

