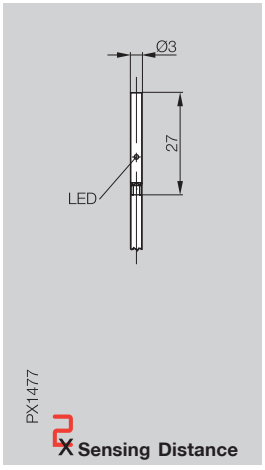
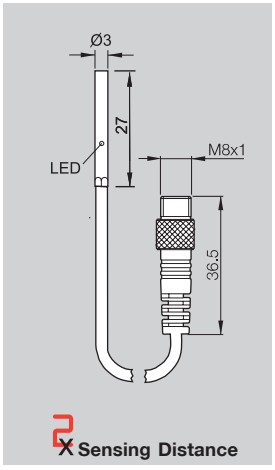
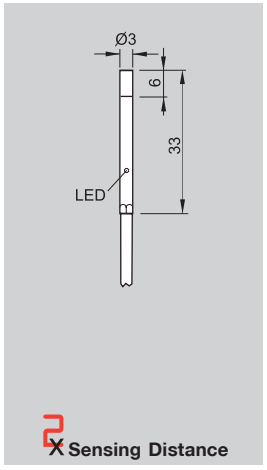
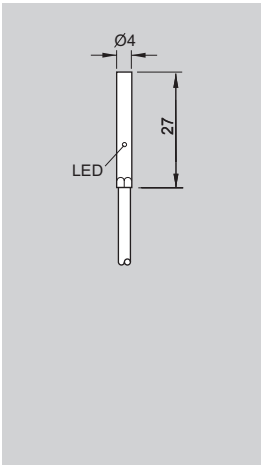
Housing Size	**Ø 3 mm**	**Ø 3 mm**	**Ø 3 mm**	**Ø 4 mm**
Mounting	flush*	flush*	non-flush*	flush
Rated Operating Distance s_n	**1.0 mm**	**1.0 mm**	**3 mm**	**0.8 mm**
Assured Operating Distance s_a	0...0.8 mm	0...0.8 mm	0...2.3 mm	0...0.6 mm









PNP	Normally-open①	BES 516-3044-G-E4-C-PU-05	BES 516-3044-G-E4-C-S49-00,3	BES 516-3048-G-E4-C-PU-05	BES 516-3007-E4-C-PU-05
	Normally-closed②	BES 516-3046-G-E4-C-PU-05			
NPN	Normally-open④		BES 516-3046-G-E4-L-S49-00,3		
	Normally-closed⑤				
Rated Operational Voltage U_e		24 Vdc	24 Vdc	24 Vdc	24 Vdc
Supply Voltage U_B		10...30 Vdc	10...30 Vdc	21.6...26.4 Vdc	10...30 Vdc
Voltage Drop U_d at I_e		≤ 2.5 V	≤ 1.5 V	≤ 2.5 V	≤ 3.0 V
Rated Insulation Voltage U_i		75 Vdc	75 Vdc	75 Vdc	75 Vdc
Load Current Capacity		100 mA	100 mA	50 mA	100 mA
Current Consumption (closed/open)		≤ 12 mA	≤ 12 mA	≤ 10 mA	≤ 12 mA
Off-state Current I_r		≤ 50 µA	≤ 50 µA	≤ 10 µA	≤ 80 µA
Protected Against Polarity Reversal		yes	yes	yes	yes
Short Circuit Protected		yes	PNP=yes, NPN=no	yes	yes
Load Capacitance		≤ 0.1 µF	≤ 0.1 µF	≤ 0.5 µF	≤ 0.1 µF
Repeat Accuracy R		≤ 5 %	≤ 5 %	≤ 15 %	≤ 5 %
Ambient Temperature Range T_a		-25...+70 °C	0...+70 °C	0...+70 °C	25...+70 °C
Operating Frequency f		2000 Hz	5000 Hz	2000 Hz	3000 Hz
Function Indication		yes	yes	yes	yes
Degree of Protection per IEC 60529		IP 67	IP 67	IP 67	IP 67
Housing Material		stainless steel	stainless steel	stainless steel	stainless steel
Material of Sensing Face		POM	POM	POM	POM
Connection		2 m cable PUR	cable with connector	cable	cable
No. of Wires×Gauge		3 x 28 AWG		3 x 28 AWG	3 x 26 AWG
Approvals		cULus			cULus
Recommended Connector			C49 ANE-00-VY-050M		

*** See technical section for proper mounting of the 2x, 3x, and 4x long range sensors.**

Other cable lengths and jacket materials may be available. Additional models may also exist. Refer to company website for details.

Wiring Diagrams

