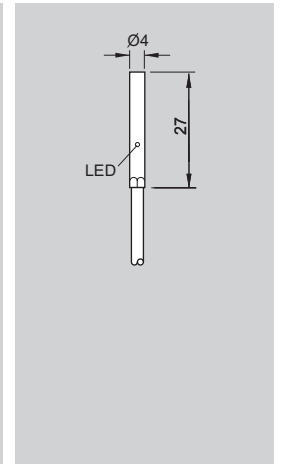
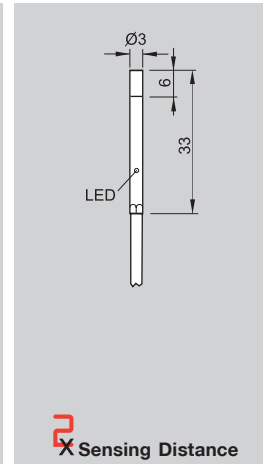
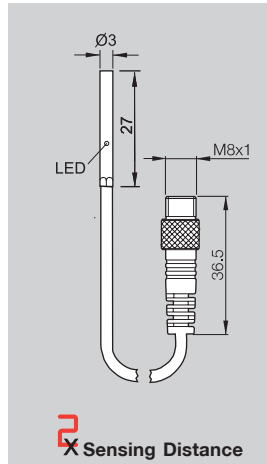
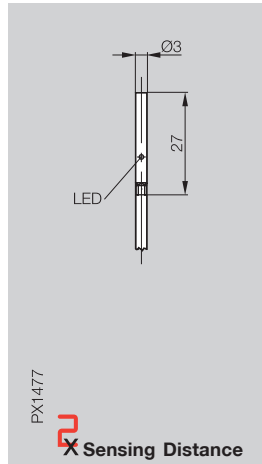


Inductive Sensors

DC 3-/4-Wire
 $\varnothing$ 3 mm, $\varnothing$ 4 mm
 s_n 0.8 mm, 1 mm, 3 mm

DC 3-/4-Wire

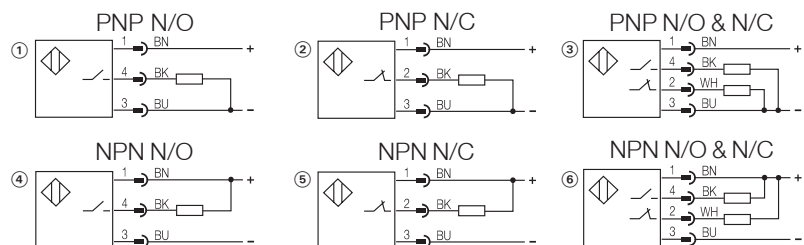
Housing Size	$\varnothing$ 3 mm	$\varnothing$ 3 mm	$\varnothing$ 3 mm	$\varnothing$ 4 mm
Mounting	flush*	flush*	non-flush*	flush
Rated Operating Distance s_n	1.0 mm	1.0 mm	3 mm	0.8 mm
Assured Operating Distance s_a	0...0.8 mm	0...0.8 mm	0...2.3 mm	0...0.6 mm



PNP	Normally-open ①	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-closed ②	BES 516-3046-G-E4-C-PU-05			
NPN	Normally-open ④		BES 516-3046-G-E4-L-S49-00,3		
	Normally-closed ⑤				
Rated Operational Voltage U_o	24 Vdc	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	10...30 Vdc
Voltage Drop U_d at I_o	≤ 2.5 V	≤ 1.5 V	≤ 2.5 V	≤ 3.0 V	≤ 3.0 V
Rated Insulation Voltage U_i	75 Vdc	75 Vdc	75 Vdc	75 Vdc	75 Vdc
Load Current Capacity	100 mA	100 mA	50 mA	100 mA	100 mA
Current Consumption (closed/open)	≤ 12 mA	≤ 12 mA	≤ 10 mA	≤ 12 mA	≤ 12 mA
Off-state Current I_r	≤ 50 μ A	≤ 50 μ A	≤ 10 μ A	≤ 80 μ A	≤ 80 μ A
Protected Against Polarity Reversal	yes	yes	yes	yes	yes
Short Circuit Protected	yes	PNP=yes, NPN=no	yes	yes	yes
Load Capacitance	≤ 0.1 μ F	≤ 0.1 μ F	≤ 0.5 μ F	≤ 0.1 μ F	≤ 0.1 μ F
Repeat Accuracy R	≤ 5 %	≤ 5 %	≤ 15 %	≤ 5 %	≤ 5 %
Ambient Temperature Range T_a	-25...+70 °C	0...+70 °C	0...+70 °C	25...+70 °C	25...+70 °C
Operating Frequency f	2000 Hz	5000 Hz	2000 Hz	3000 Hz	3000 Hz
Function Indication	yes	yes	yes	yes	yes
Degree of Protection per IEC 60529	IP 67	IP 67	IP 67	IP 67	IP 67
Housing Material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Material of Sensing Face	POM	POM	POM	POM	POM
Connection	2 m cable PUR	cable with connector	cable	cable	cable
No. of Wires $\times$ Gauge	3 $\times$ 28 AWG		3 $\times$ 28 AWG	3 $\times$ 26 AWG	3 $\times$ 26 AWG
Approvals	cULus			cULus	cULus
Recommended Connector		C49 ANE-00-VY-050M			

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

Wiring Diagrams



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