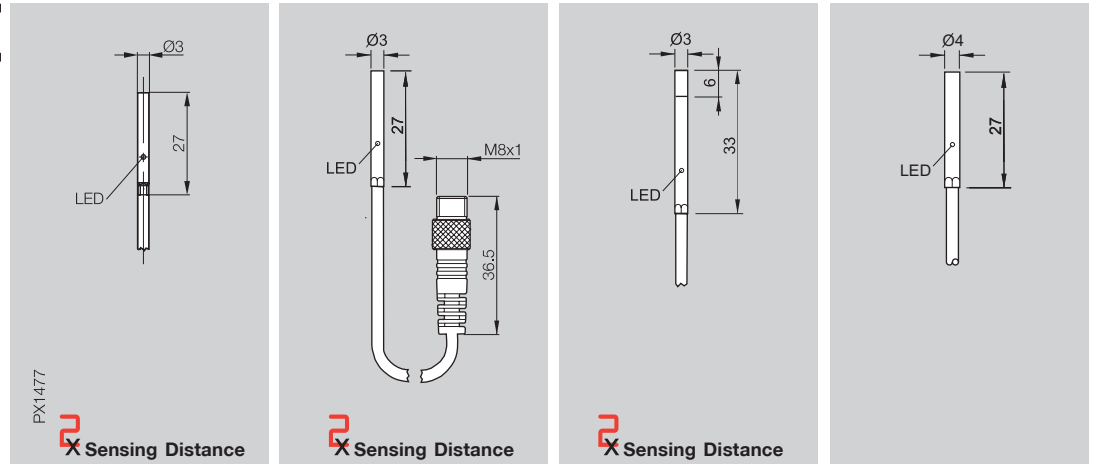


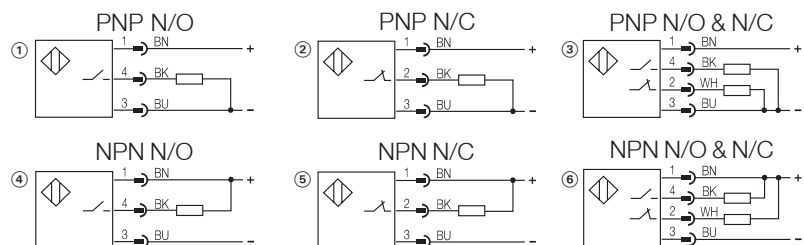
Housing Size	Ø 3 mm	Ø 3 mm	Ø 3 mm	Ø 4 mm
Mounting	flush*	flush*	non-flush*	flush
Rated Operating Distance s _n	1.0 mm	1.0 mm	3 mm	0.8 mm
Assured Operating Distance s _a	0...0.8 mm	0...0.8 mm	0...2.3 mm	0...0.6 mm



PNP	Normally-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 _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 x 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.

Wiring Diagrams



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

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