

유도근접스위치

우리의 표준은 3-wire DC버전에서 경제적인 베이식 시리즈를 제공한다.

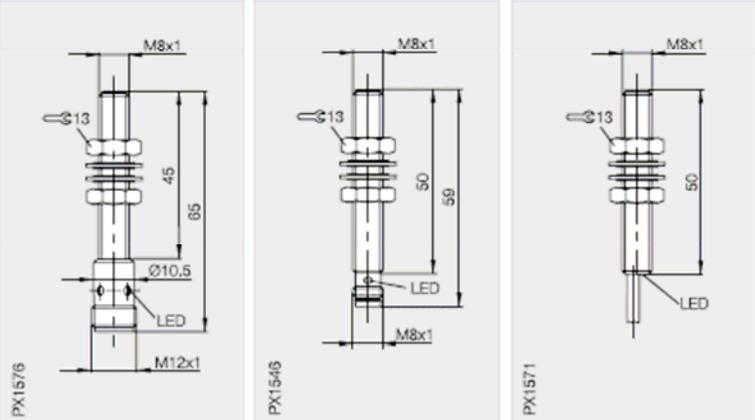
발루프유도센서는 제어, 조절, 자동화, 위치제어 및 공정감시에 사용된다. 이것은 금속감지용 센서로서, 비접촉식으로 마모가 없으며 머신공구, 플라스틱 공정 머신, 섬유기계, 조립시스템, 목공기계 그리고 자동차 산업에서 자동화가 필요한 모든 곳에서 사용된다.

- 비접촉
- 마모가 없음
- 자기역전 보호
- 단락보호
- LED기능표시
- 실질적인 무한수명
- 오염에 대한 둔감성
- 극한조건하에서의 사용

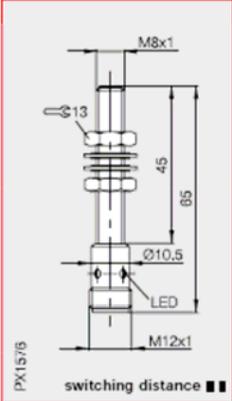
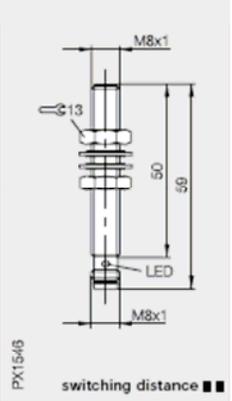
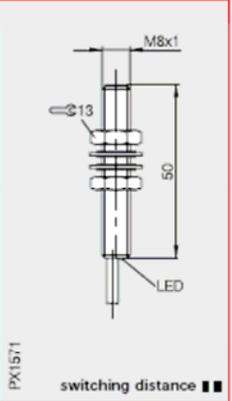
DC 3선식 센서 M8 M12 M18

<p style="text-align: center;">유도센서</p> 	<p>Please add the cable length to the ordering code for sensors with cable!</p> <p>BV03, BV05 = PVC, length 3 m or 5 m</p> <p>BP03, BP05 = PUR, length 3 m or 5 m</p>
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DC3선식 M8 정격검출거리 Sn 1.5mm

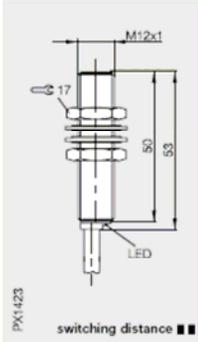
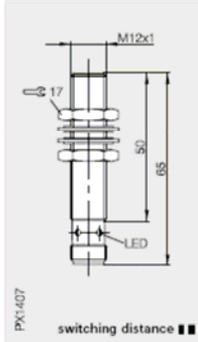
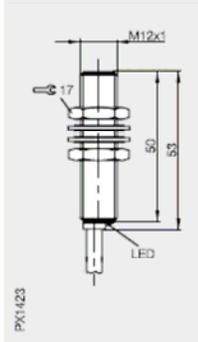
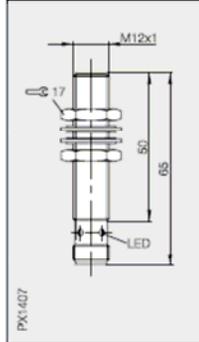
Housing size	M8×1	M8×1	M8×1
Mounting	flush	flush	flush
Rated operating distance s_n	1.5 mm	1.5 mm	1.5 mm
Assured operating distance s_a	0...1.2 mm	0...1.2 mm	0...1.2 mm
			
			
PNP Normally-open ①	BES M08MH1-PSC15B-S04G	BES M08MI-PSC15B-S49G	BES M08MI-PSC15B-
NPN Normally-open ④	BES M08MH1-NSC15B-S04G	BES M08MI-NSC15B-S49G	BES M08MI-NSC15B-
Rated operational voltage U_o	24 V DC	24 V DC	24 V DC
Supply voltage U_B	12...30 V DC	12...30 V DC	12...30 V DC
Voltage drop U_d at I_e	≤ 3 V	≤ 3 V	≤ 3 V
Rated insulation voltage U_i	75 V DC	75 V DC	75 V DC
Rated operational current I_e	100 mA	100 mA	100 mA
No-load supply current I_o max.	≤ 11 mA	≤ 11 mA	≤ 11 mA
Off-state current I_f	≤ 80 μA	≤ 80 μA	≤ 10 μA
Protected against polarity reversal	yes	yes	yes
Short circuit protected	yes	yes	yes
Load capacity	≤ 0.5 μF	≤ 0.5 μF	≤ 0.5 μF
Repeat accuracy R	≤ 5 %	≤ 5 %	≤ 5 %
Ambient temperature range T_a	-25...+70 °C	-25...+70 °C	-25...+70 °C
Frequency of operating cycles f	600 Hz	600 Hz	600 Hz
Utilization categories	DC 13	DC 13	DC 13
Function indication	yes	yes	yes
Degree of protection per IEC 60529	IP 67	IP 67	IP 67
Housing material	CuZn nickel plated	CuZn nickel plated	CuZn nickel plated
Material of sensing face	PBT	PBT	PBT
Connection	connector	connector	cable
No. of wires × conductor cross section			3 × 0.14 mm ²
Approval	cULus	cULus	cULus
Recommended connector	BKS-B 19/BKS-B 20	BKS-B 48/BKS-B 49	

DC3선식 M8 정격검출거리 Sn 2mm

M8×1 flush 2 mm 0...1.6 mm	M8×1 flush 2 mm 0...1.6 mm	M8×1 flush 2 mm 0...1.6 mm		
				
BES M08MH1-PSC20B-S04G	BES M08MI-PSC20B-S49G	BES M08MI-PSC20B-		
BES M08MH1-NSC20B-S04G	BES M08MI-NSC20B-S49G	BES M08MI-NSC20B-		
24 V DC	24 V DC	24 V DC		
12...30 V DC	12...30 V DC	12...30 V DC		
≤ 3 V	≤ 3 V	≤ 3 V		
75 V DC	75 V DC	75 V DC		
100 mA	100 mA	100 mA		
≤ 11 mA	≤ 11 mA	≤ 11 mA		
≤ 80 µA	≤ 80 µA	≤ 10 µA		
yes	yes	yes		
yes	yes	yes		
≤ 0.5 µF	≤ 0.5 µF	≤ 0.5 µF		
≤ 5 %	≤ 5 %	≤ 5 %		
-25...+70 °C	-25...+70 °C	-25...+70 °C		
400 Hz	400 Hz	400 Hz		
DC 13	DC 13	DC 13		
yes	yes	yes		
IP 67	IP 67	IP 67		
CuZn nickel plated	CuZn nickel plated	CuZn nickel plated		
PBT	PBT	PBT		
connector	connector	cable		
cULus	cULus	3 × 0.14 mm ²		
cULus	cULus	cULus		
BKS-B 19/BKS-B 20	BKS-B 48/BKS-B 49			

DC3선식 M12 정격검출거리 Sn 2mm 4mm

Housing size	M12×1	M12×1	M12×1	M12×1
Mounting	flush	flush	flush (free zone 1.5 mm)	flush (free zone 1.5 mm)
Rated operating distance s_n	2 mm	2 mm	4 mm	4 mm
Assured operating distance s_a	0...1.6 mm	0...1.6 mm	0...3.2 mm	0...3.2 mm



PNP	Normally-open ①	BES M12MI-PSC20B-S04G	BES M12MI-PSC20B-	BES M12MI-PSC40B-S04G	BES M12MI-PSC40B-
NPN	Normally-open ④	BES M12MI-NSC20B-S04G	BES M12MI-NSC20B-	BES M12MI-NSC40B-S04G	BES M12MI-NSC40B-
Rated operational voltage U_o	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Supply voltage U_b	12...30 V DC	12...30 V DC	12...30 V DC	12...30 V DC	12...30 V DC
Voltage drop U_d at I_o	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V
Rated insulation voltage U_i	250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
Rated operational current I_o	200 mA	200 mA	200 mA	200 mA	200 mA
No-load supply current I_o max.	≤ 15 mA	≤ 15 mA	≤ 15 mA	≤ 15 mA	≤ 15 mA
Off-state current I_o	≤ 20 μA	≤ 20 μA	≤ 20 μA	≤ 20 μA	≤ 20 μA
Protected against polarity reversal	yes	yes	yes	yes	yes
Short circuit protected	yes	yes	yes	yes	yes
Load capacity	≤ 1 μF	≤ 1 μF	≤ 1 μF	≤ 1 μF	≤ 1 μF
Repeat accuracy R	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %
Ambient temperature range T_a	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
Frequency of operating cycles f	1200 Hz	1200 Hz	300 Hz	300 Hz	300 Hz
Utilization categories	DC 13	DC 13	DC 13	DC 13	DC 13
Function indication	yes	yes	yes	yes	yes
Degree of protection per IEC 60529	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20
Insulation class	□	□	□	□	□
Housing material	CuZn nickel plated	CuZn nickel plated	CuZn nickel plated	CuZn nickel plated	CuZn nickel plated
Material of sensing face	PA 12	PA 12	PA 12	PA 12	PA 12
Connection	connector	cable	connector	connector	cable
No. of wires × conductor cross section		3 × 0.34 mm ²			3 × 0.34 mm ²
Approval	cULus	cULus	cULus	cULus	cULus
Recommended connector	BKS-B 19/BKS-B 20		BKS-B 19/BKS-B 20		

DC3선식 M18 정격검출거리 Sn 5mm 8mm

M18x1 flush 5 mm 0...4.1 mm	M18x1 flush 5 mm 0...4.1 mm	M18x1 flush (free zone 2.5 mm) 8 mm 0...6.5 mm	M18x1 flush (free zone 2.5 mm) 8 mm 0...6.5 mm
BES M18MI-PSC50B-S04G	BES M18MI-PSC50B-	BES M18MI-PSC80B-S04G	BES M18MI-PSC80B-
BES M18MI-NSC50B-S04G	BES M18MI-NSC50B-	BES M18MI-NSC80B-S04G	BES M18MI-NSC80B-
24 V DC	24 V DC	24 V DC	24 V DC
12...30 V DC	12...30 V DC	12...30 V DC	12...30 V DC
≤ 2.5 V	≤ 2.5 V	≤ 2.5 V	≤ 2.5 V
250 V AC	250 V AC	250 V AC	250 V AC
200 mA	200 mA	200 mA	200 mA
≤ 15 mA	≤ 15 mA	≤ 15 mA	≤ 15 mA
≤ 20 µA	≤ 20 µA	≤ 20 µA	≤ 20 µA
yes	yes	yes	yes
yes	yes	yes	yes
≤ 1 µF	≤ 1 µF	≤ 1 µF	≤ 1 µF
≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %
-25...+70 °C	-25...+70 °C	-25...+70 °C	-25...+70 °C
700 Hz	700 Hz	150 Hz	150 Hz
DC 13	DC 13	DC 13	DC 13
yes	yes	yes	yes
IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20	IP 68 per BWN Pr. 20
CuZn nickel plated/ PA 6 transparent	CuZn nickel plated	CuZn nickel plated/ PA 6 transparent	CuZn nickel plated
PA 12 connector	PA 12 cable	PA 12 connector	PA 12 cable
cULus	3 × 0.34 mm ² cULus	cULus	3 × 0.34 mm ² cULus
BKS-B 19/BKS-B 20		BKS-B 19/BKS-B 20	