

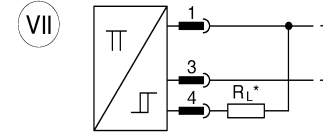
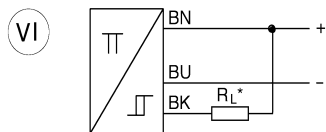
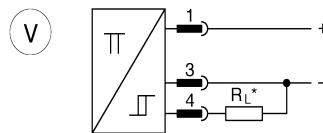
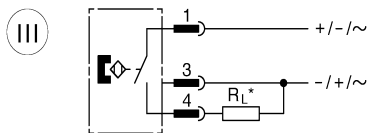
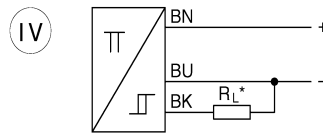
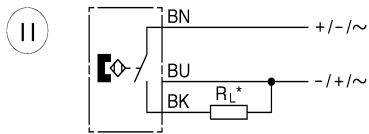
Cylinder switches and accessories

Cylinder switch, Series ST6 (Micro), option:ATEX

Rexroth
Bosch Group



▲ Cylinder switch Micro, electrically (Reed contact) and electronic (contactless)



00111961



BN = brown, BK = black, BU = blue

Co-connector	Contact type	Symbol	Length of cable L [m] Material	Ambient temperature range	Operating voltage	Switching current max. [mA]	ATEX *	Part no.
B	Reed	II (3-wire)	3 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100629
B	Reed	II (3-wire)	5 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100630
B	Reed	II (3-wire)	10 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	R412004575
A	Reed	III (3-wire)	0,3 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100488
C	Reed	III (3-wire)	0,3 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100432
D	Reed	III (3-wire)	0,3 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100434
D	Reed	III (3-wire)	0,5 PUR	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	0830100436
D	Reed	III (3-wire)	0,3 PVC	-25 °C to +70 °C	AC/DC 10-30 V	AC/DC 130	-	R412004761
B	contactless PNP	IV (3-wire)	3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100631
B	contactless PNP	IV (3-wire)	5 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100632
B	contactless PNP	IV (3-wire)	10 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	R412004576
A	contactless PNP	V (3-wire)	0,3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100489
C	contactless PNP	V (3-wire)	0,3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100433
D	contactless PNP	V (3-wire)	0,3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100435
D	contactless PNP	V (3-wire)	0,5 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100437
D	contactless PNP	V (3-wire)	0,3 PVC	-25 °C to +70 °C	DC 10-30 V	DC 100	-	R412004762
B	contactless NPN	VII (3-wire)	3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100633
B	contactless NPN	VII (3-wire)	5 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100634
A	contactless NPN	VII (3-wire)	0,3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100430
C	contactless NPN	VII (3-wire)	0,3 PUR	-25 °C to +70 °C	DC 10-30 V	DC 100	-	0830100431
B	contactless PNP	IV (3-wire)	3 PUR	-20 °C to +45 °C	DC 18-30 V	DC 70	R412003658	-
B	contactless PNP	IV (3-wire)	5 PUR	-20 °C to +45 °C	DC 18-30 V	DC 70	R412004585	-
C	contactless PNP	V (3-wire)	0,3 PUR	-20 °C to +45 °C	DC 18-30 V	DC 70	R412003659	-
D	contactless PNP	V (3-wire)	0,3 PUR	-20 °C to +45 °C	DC 18-30 V	DC 70	R412003660	-

A = Plug-in connection M8x1; B = Cable connection; C = Plug-in connection M12x1; D = Plug-in connection M8x1 with knurled screw

*
**

R412003659, R412003660 = Zone 2 (Kategorie 3 G) Gasgruppe II EEx nA II T4 X

Power supply with protective extra-low voltage (PELV/SELV) according to DIN EN 50178, classification VDE 0160

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Part no.	Switching capacity max.	Rs [Ω]	Voltage drop U at I _{max} .	Operational current (without load) not switched	Operational current (without load) switched	Switching frequency max.	Short-circuit protection	Polarity safe
0830100629	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
0830100630	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
R412004575	3 W / 5 VA	15	-	-	-	-	-	-
0830100488	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
0830100432	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
0830100434	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
0830100436	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
R412004761	3 W / 5 VA	15	≤ 3,6 V	-	-	< 300 Hz	no	yes
0830100631	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100632	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412004576	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100489	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100433	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100435	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100437	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412004762	3 W / 5 VA	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100633	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100634	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100430	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
0830100431	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412003658	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412004585	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412003659	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes
R412003660	-	-	≤ 2,5 V	< 20 mA	< 30 mA	< 1 kHz	yes	yes

General characteristics:

- Degree of protection: IP 67 - IEC 60529 (DIN VDE 0470)
- Switching point accuracy (temperature = constant): ± 0,1 mm
- Indicator: LED (yellow = operating status: switched)
- Materials, body: polyamide

Reed:

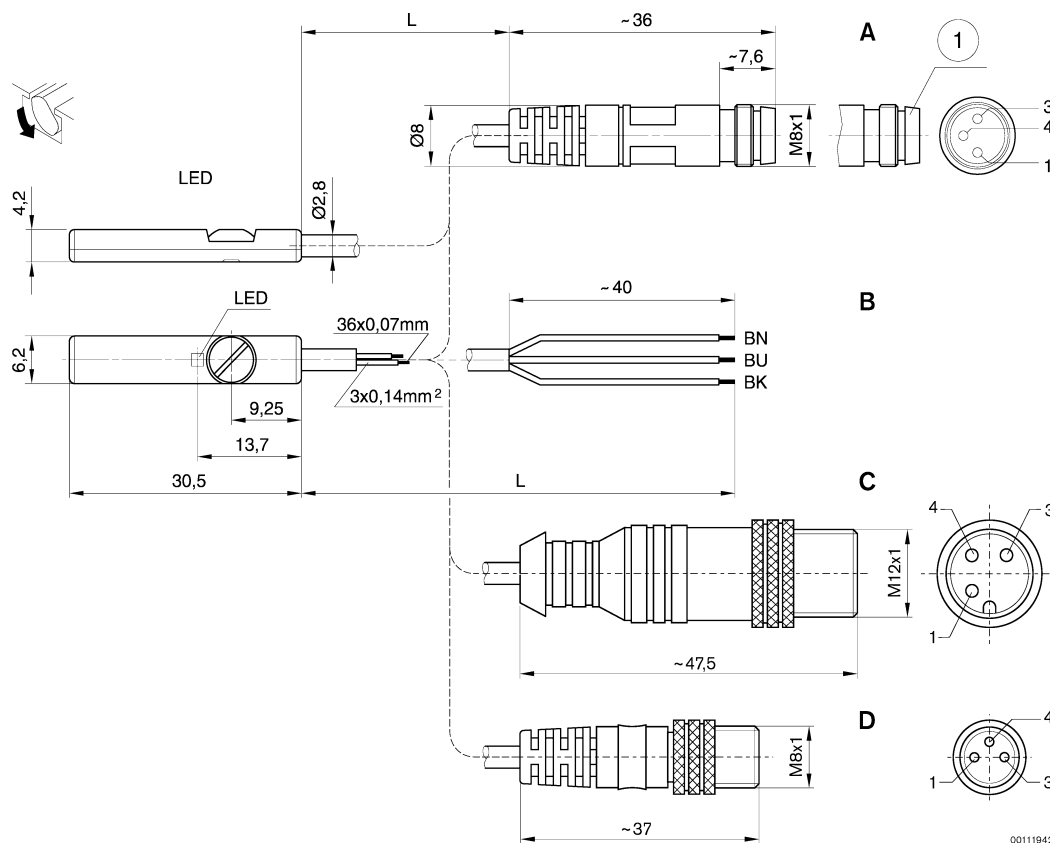
- Rs = protective resistor for reed contact
- Shock resistance max.: 30 g / 11 msec (contact closes)
- Vibration resistance: 10–55 Hz, 1 mm
- Switching response times ON / OFF: ~ 0,5 msec / ~ 0,1 msec

Approximate figures for hysteresis, response travel and overrun speed, see last page of switches

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Bosch Group



00111942

(1) Plug-in connection can be combined with socket coupling snap connection 6.5 dia.
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