

Designation code

Electromechanical magnetic switches

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.
M	A	K	-	0	8	1	2	-	D	-	1	-	S	O	K	
Product group			Design		Contact specifications				Cable length		Special features					

Product group

- 1** M = Magnetic switch, general
- 2** Output type
 - A = reed contact
 - I = TRIAC
 - M = mechanical usage
 - Q = mercury contact
 - R = relay
- 3** Housing material
 - A = aluminium
 - N = stainless steel
 - M = brass, nickel-plated
 - K = plastic
 - O = other materials

Design

- 4** Dash
- 5/6** Designation description
 - 01 = 45 x 9 x 13 mm
 - 02 = 80 x 15 x 20 mm
 - 03 = 100 x 29.5 x 58 mm
 - 04 = RD 15.5 x 145 mm
 - 06 = RD 12 x 86 mm
 - 08 = M 8 x 1 x 32 mm
 - 11 = 28.6 x 6.4 x 18 mm
 - 12 = 80 x 15 x 20 mm
 - 13 = 68 x 30 x 15 mm
 - 16 = RD 12 x 86 mm
 - 17 = Pg 9 x 60 mm
 - 18 = M 12 x 1 x 60 mm
 - 23 = M 12 x 1 x 80 mm
 - 26 = RD 12 x 92 mm
 - 28 = M 12 x 1 x 60 mm
 - 30 = RD 6 x 28 mm
 - 31 = Pg 9 x 100 mm
 - 32 = 85 x 24 x 26 mm
 - 33 = M 12 x 1 x 80 mm
 - 36 = RD 13 x 108 mm
 - 42 = 88 x 13 x 25 mm
 - 43 = Pg 9 x 80 mm
 - 44 = 80 x 15 x 30 mm
 - 45 = 45 x 9 x 25.5 mm
 - 46 = RD 6.5 x 40 mm

Contact specifications

- 7** Number of contacts
 - e. g. 1 = 1 reed contact
 - 2 = 2 reed contacts
 - etc.
- 8** Contact function
 - 1 = N.C.
 - 2 = N.O.
 - 3 = change over
 - 4 = bistable (on-off)
 - 5 = bistable (change over)
 - 6 = N.C., N.O.;
separate contacts
 - 7 = coded, BG
 - 8 = not used at present
 - 9 = not used at present
 - 0 = other outputs
- 9** Dash
- 10** Performance of reed contacts
 - A = 250 VDC; 0.5 A; 20 VA
 - B = 250 VDC; 0.5 A; 10 VA
 - C = 250 VDC; 0.5 A; 30 VA
 - D = 250 VDC; 0.5 A; 30 VA
 - E = 250 VDC; 1.5 A; 30 VA
 - F = 250 VDC; 3 A; 100 VA
 - G = 250 VDC; 5 A; 250 VA
 - H = 250 VDC; 1 A; 60 VA
 - K = 250 VDC; 0.5 A; 30 VA
 - L = 250 VDC; 1 A; 60 VA
 - M = 250 VDC; 1 A; 80 VA
 - N = 250 VDC; 1 A; 60 VA
 - O = 120 VDC; 0.5 A; 10 VA
 - P = 250 VDC; 5 A; 250 VA
 - R = 28 VDC; 0.25 A; 3 VA
 - W = 250 VDC; 1.0 A; 60 VA
 - X = 100 VDC; 0.25 A; 5 VA
 - Y = 100 VDC; 0.5 A; 10 VA

TRIAC usage:

- K = 24 - 250 VDC; 1.5 A
 - a. 300 VA
 - b. 330 VA

11 Dash

- 12** Cable length in metres
 - e. g. 1 = 1 m cable
 - 2 = 2 m cable
 - etc.

13 Dash

14-17 Special features

- EX = explosion-protected
- T = temperature resistance from
- 40 °C to + 150 °C
- SI = with fine-wire fuse
- VDR = with VDR
- WID = with resistor
- LED = with LED
- Diode = with diode
- SPK = spiral cable
- SK = special cable
- SOK = plug type without head
(without device connector)
- SMK = plug type with head
(without device connector)
- Pg 11 = Pg11 screw thread version
- SSW = downtime connector with relay
- RZ = time delay with relay
- RE = relay
- 220V = 220V version
- 24 V = 24V version

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Electronic magnetic switches

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M	E	K	-	0	2	N	P	2	-	1	0	.	4	-	5	/	L
Product group				Design		Polarity	Output	Function		Magnetic sensitivity			Output current		Options		

Product group

- 1 M = Magnetic switch, general
- 2 E = electronic type
- 3 Housing material
 - A = aluminium
 - N = stainless steel
 - M = brass, nickel-plated
 - K = plastic
- 4 Dash

Design

- 5/6 Designation description
 - 52 = 43 x 26 x 13 mm
 - 55 = 12 x 12 x 55 mm
 - 61 = M 10 x 1 x 40 mm
 - 62 = M 12 x 1 x 46 mm
 - 63 = M 18 x 1 x 35 mm
 - 70 = RD 6.5 x 25 mm
 - 80 = 8 x 8 x 40 mm

Polarity

- 7 N = north pole
- S = south pole
- O = omnipolar (north and south pole)

Bistable types:
The polarity describes the pole, which switches on the device.

Output

- 8 P = PNP
- N = NPN
- R = Relay
- G = complementary

Function

- 9 1 = N.C.
- 2 = N.O.
- 3 = not used at present
- 4 = bistable
- 5 = not used at present
- 6 = not used at present
- 7 = not used at present
- 8 = not used at present
- 9 = not used at present
- 0 = other

10 Dash

Magnetic sensitivity

11/12 Average value in mT:
e. g. 10 = 10 mT
05 = 5 mT
(the lower the value, the higher the sensitivity)

13 Dot

Output current

- 14 4 = 400 mA
- 2 = 200 mA
- 0 = other

15 Dash

Options

- 16 Cable length in metres
- S = plug
- 17 Dash
- 18 L = LED
- K = short circuit proof
- X = customer specific features
- A = 10 - 30 VDC

Contact types

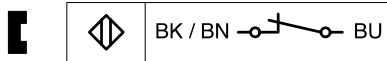
Electrical loading capacity of reed contacts

Contact type	Performance	Voltage	Current
R	3 VA	28 V	0.25 A
X	5 VA	100 V	0.25 A
B	10 VA	250 V	0.5 A
Y	10 VA	100 V	0.5 A
A	20 VA	250 V	0.5 A
K	30 VA	250 V	0.5 A
H	60 VA	250 V	1.0 A
L	60 VA	250 V	1.0 A
M	80 VA	250 V	1.0 A
F	100 VA	250 V	3.0 A
G	250 VA*	250 V	5.0 A*
P	250 VA*	250 V	5.0 A*

* max. making current of 2.5 A for duration of 2 ms;
100 WVA in permanent operation

Wiring diagrams electromechanical magnet switches

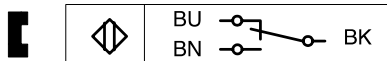
Normally closed



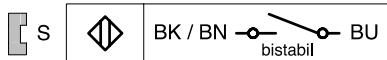
Normally open



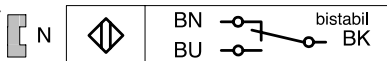
Change over



Bistable ON-OFF

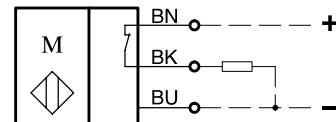


Bistable Change over

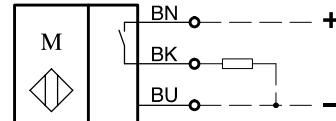


Wiring diagrams electronic magnet switches

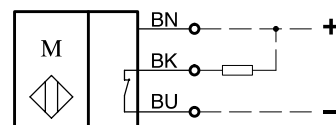
Normally closed, PNP



Normally open, PNP/ PNP, bistabil



Normally closed, NPN



Normally open, NPN

