

## M/50/LSU, M/50/RAC, TM/50/RAU Magnetically operated switches Reed switches

Suitable for all cylinder ranges with magnetic piston

Switches can be mounted flush with the delivered special adaptor

LED indicator on LSU models

Alternative variants allows a wide range of application



### Technical features

#### Operation:

M/50/LSU Normally open with LED (yellow)

#### Switching voltage (U<sub>b</sub>):

10 ... 240 V a.c./170 V d.c.

#### Switching voltage output:

U<sub>b</sub> - 2,7 V

#### Switching current (see graph overleaf):

0,18 A max.

#### Switching power:

10 W/10 VA max.

#### Contact resistance:

150 mΩ

#### Response time:

1,8 ms

#### Operating temperature:

-25°C ... +80°C,  
High temperature version:  
+150°C max.

#### Protection rating (EN 60529):

IP 66

#### Shock resistance:

50 g (during 11 ms)

#### Vibration resistance:

35 g (at 2000 Hz)

#### Cable type:

2 x 0,25: PVC, PUR or silikon  
3 x 0,25 PVC

#### Cable length:

2, 5 or 10 m

#### Electromagnetic compatibility


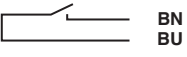
according to:  
EN 60947-5-2

#### Materials:

Body: plastic

Cable: see table below

### Technical data, standard models

Symbol	Voltage (V a.c.)	Voltage (V d.c.)	Current max. (mA)	Function	Temperature (°C)	LED	Protection class	Features	Cable length (m)	Cable type	Weight (g)	Model
	10 ... 240	10 ... 170	180	Closer	-25 ... +80	•	IP66	—	2, 5 or 10	PVC 2 x 0,25	37	M/50/LSU/*V
	10 ... 240	10 ... 170	180	Closer	-25 ... +80	•	IP66	—	5	PUR 2 x 0,25	37	M/50/LSU/5U
	10 ... 240	10 ... 170	180	Closer	-25 ... +150	—	IP66	—	2	Silicon 2 x 0,25	37	TM/50/RAU/2S
	10 ... 240	10 ... 170	180	Changeover	-25 ... +80	—	IP66	—	5	PVC 3 x 0,25	37	M/50/RAC/5V
	10 ... 60	10 ... 60	180	Closer	-25 ... +80	•	IP66	Plug M8 x 1	0,3	PVC 3 x 0,25	16	M/50/LSU/CP *1)

\* Insert cable length

\*1) Plug-in connector see page 2

Color code: BK = black, BN = brown, BU = blue

## Options selector

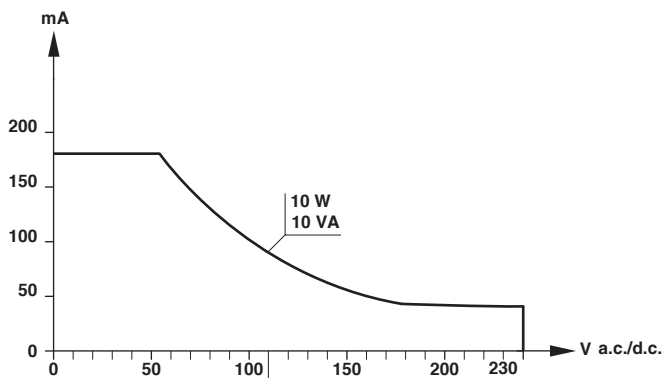
★M/50/★ ★★/★ ★★

Variants	Substitute
High temperature (+150°C)	T
Type	Substitute
Reed with LED	L
Reed without LED	R
Switching voltage	Substitute
Standard	S
Special	A
Function	Substitute
Closer	U
Changeover	C

Cable	Substitute
Silicone	S
PVC	V
PUR	U
Cable length/plug	Substitute
2 m	2
5 m	5
10 m	10
Cable (0,3 m) with plug M8 x 1	CP

## Switching current and switching voltage

M/50/LSU, M/50/RAC, M/50/RAU



## Accessories

Plug-in connector cable with nut



Outer cover	Cable length	Weight (kg)	Connector	Model
PVC 3 x 0,25	5 m	0,18	M8 x 1	M/P73001/5
PUR 3 x 0,25	5 m	0,18	M8 x 1	M/P73002/5

## Mounting elements for magnetic switches

Cylinder with external tie rods  
RA/8000/M, KA/8000/M  
RA/28000/M, RM/900/M

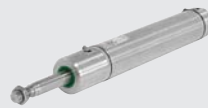
Roundline cylinder  
RM/55401/M

Roundline cylinder  
KM/55001/M, VSM/55640/N2

Roundline cylinder  
R./57100/M, R./57200/M  
R./57300/M

Roundline cylinder  
< 25 mm stroke  
RM/8000/M, KM/8000/M  
RM/28000/M

Roundline cylinder  
> 25 mm stroke  
RM/8000/M, KM/8000/M  
RM/28000/M



Mounting elements

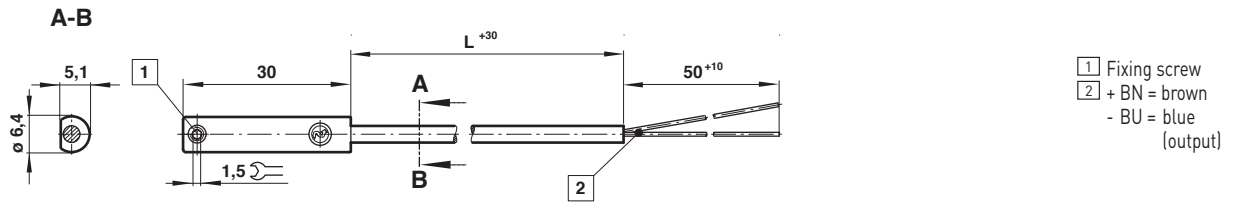


Cylinder Ø(mm)	Model	Cylinder Ø(mm)	Model	Cylinder Ø(mm)	Model	Cylinder Ø(mm)	Model	Cylinder Ø(mm)	Model	Cylinder Ø(mm)	Model
32 ... 200	QM/27/2/1	32	QM/33/432/22	32	QM/33/432/22	10	QM/33/010/22	10	QM/33/010/22	10	QM/33/010/23
		40	QM/33/440/22	40	QM/33/440/22	12	QM/33/012/22	12	QM/33/012/22	12	QM/33/016/23
		50	QM/33/450/22	50	QM/33/450/22	16	QM/33/016/22	16	QM/33/016/22	16	QM/33/016/23
		63	QM/33/463/22	63	QM/33/463/22	20	QM/33/020/22	20	QM/33/020/22	20	QM/33/020/23
		80	QM/33/480/22	80	QM/33/080/22	25	QM/33/025/22	25	QM/33/025/22	25	QM/33/025/23
		100	QM/33/410/22	100	QM/33/100/22	32	QM/33/032/22				
				125	QM/33/125/22	40	QM/33/040/22				
						50	QM/33/050/22				
						63	QM/33/063/22				

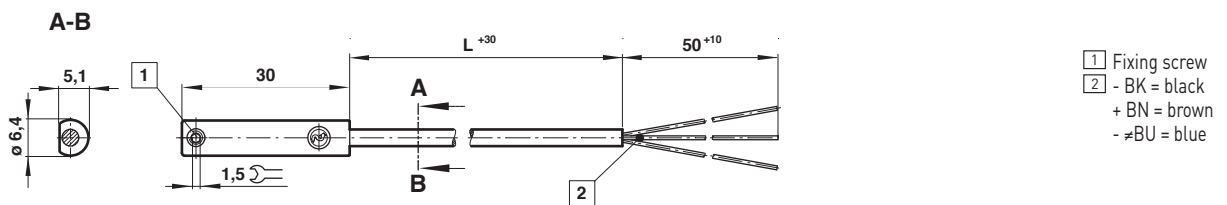
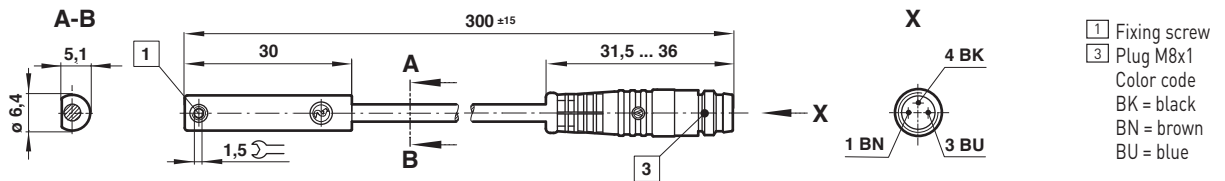
Dimensions see relevant cylinder sheets.

**Dimensions**
**M/50/LSU\*V, M/50/LSU/5U, TM/50/RAU/2S**

Cable length L = 2, 5 or 10 m


**M/50/RAC/5V**

Cable length L = 5 m


**M/50/LSU/CP**

**Warning**

These products are intended for use in industrial control systems only. Do not use these products where values can exceed those listed under **'Technical Features/Data'**.

Before using these products for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in control systems can fail in various modes.

The system designer is warned to consider the failure modes of all

component parts used in control systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.