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## Reed sensor MS for PCB

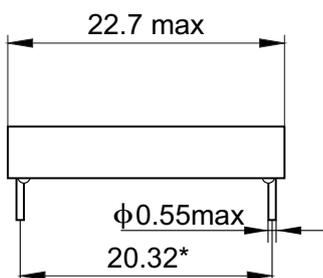
This product is in accordance with RoHs

These sensors are designed for PCB mounting.

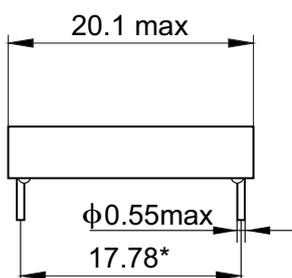
Sensors are operated by permanent magnets size and parameters of which depend on user's applications. Sensitivities of switches are indicated below expressed as ampere turns measured in standard coil.

In case of doubts please contact the producer.

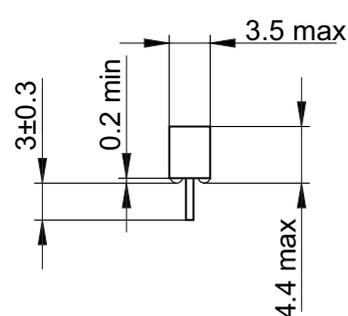
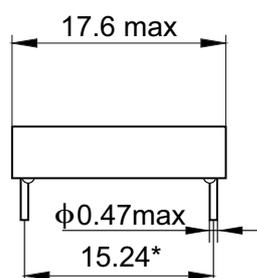
**MS01**



**MS02**



**MS03**



all dimensions in mm

\* dimension for tool

DATA SCAN	Unit	TYPE			
		MS01-01 MS02-01 MS03-01	MS01-02 MS02-02 MS03-02	MS01-03 MS02-03 MS03-03	MS01-04 MS02-04 MS03-04
Contact form		normally open			
Pull-in Ampere turns	AT	9 ÷ 12	10 ÷ 15	15 ÷ 20	20 ÷ 25
Switching power	max W	10		10	
Switching voltage	max V <sub>DC</sub>	50		100	
Switching current	max A	0.5		0.5	
Carry current	max A	1		1	
Contact resistance	max mΩ	150		150	
Breakdown voltage	min V <sub>DC</sub>	100		200	
Operate time incl. bounce time	max ms	1.		1	
Release time	max ms	0,1		0,1	
Environment category acc. to IEC 68-1		40/85/21			

Typical applications :  
 micro switch, garage doors, elevators, washing machines.



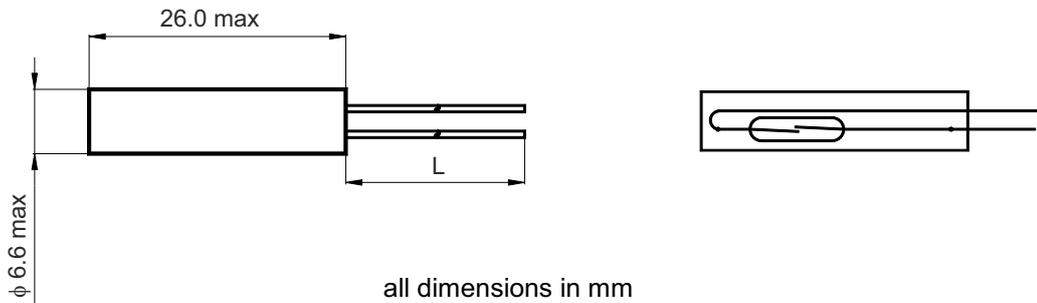
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## Reed sensor DH 94

This product is in accordance with RoHs

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of reed switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



all dimensions in mm

L – Length of wires depends on customer's requirement

DATA SCAN	Unit	TYPE
		<b>DH 94</b>
Contact form		normally open
Pull-in Ampere turns	AT	10 ÷ 15
Switching power	max W,VA	10
Switching voltage	max $V_{DC,AC}$	50
Switching current	max A	0,5
Carry current	max A	1,0
Contact resistance	max $m\Omega$	100
Breakdown Voltage	min $V_{DC}$	100
Operate time incl bounce time	max ms	1
Release time	max ms	0,1
Environment category acc. to IEC 68-2-1	3	40/85/21
Connecting wire		LIY 1x0,14mm <sup>2</sup>
Housing		Plastic case

Typical applications:  
 garage doors, elevators, washing machines.



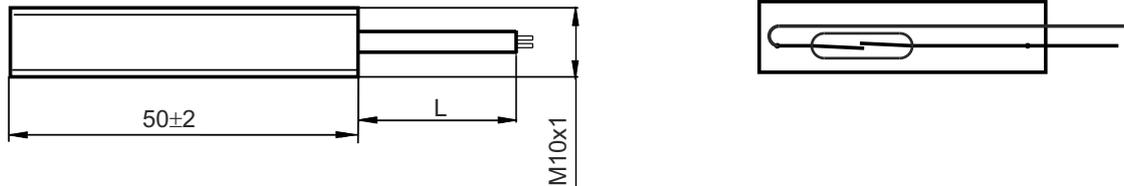
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## Reed sensor DH 95

This product is in accordance with RoHs

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



all dimensions in mm

L – Length of wires depend on customer's requirement

DATA SCAN	Unit	TYPE
		<b>DH 95</b>
Contact form		normally open
Pull-in Ampere turns	AT	15 ÷ 20
Switching power	max W,VA	10
Switching voltage	max V <sub>DC,AC</sub>	100
Switching current	max A	0,5
Carry current	max A	1,0
Contact resistance	max mΩ	100
Breakdown Voltage	min V <sub>DC</sub>	200
Operate time incl bounce time	max ms	1
Release time	max ms	0,1
Environment category acc. to IEC 68-2-1 ÷ 3		40/85/21
Connecting wire		LIYY 2x0,34 mm <sup>2</sup>
Housing		Plastic case

Typical applications:  
 garage doors, elevators, washing machines.

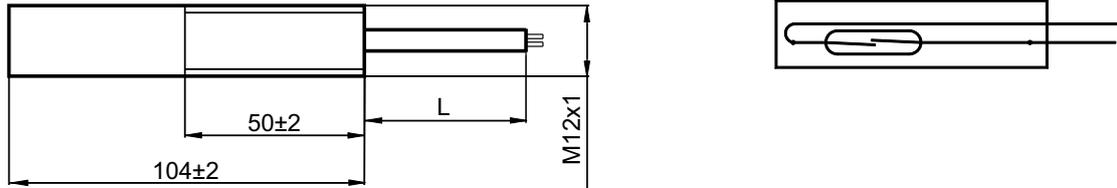


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## Reed sensor DH 96

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 In case doubts please contact the producer.



all dimensions in mm

L – Length of wires depend on customer's requirement

DATA SCAN	Unit	TYP
		<b>DH 96</b>
Contact form		normally open
Pull-in Ampere turns	AT	45 ÷ 55
Switching power	max W,VA	180
Switching voltage	max V <sub>DC,AC</sub>	230
Switching current	max A	3,0
Carry current	max A	5,0
Contact resistance	max mΩ	150
Breakdown Voltage	min V <sub>DC</sub>	400
Operate time incl bounce time	max ms	2,5
Release time	max ms	0,2
Environment category acc. to IEC 68-2-1 ÷ 3		40/85/21
Connecting wire		LIYY 2x0,34 mm <sup>2</sup>
Housing		Plastic case

Typical applications:  
 garage doors, elevators.



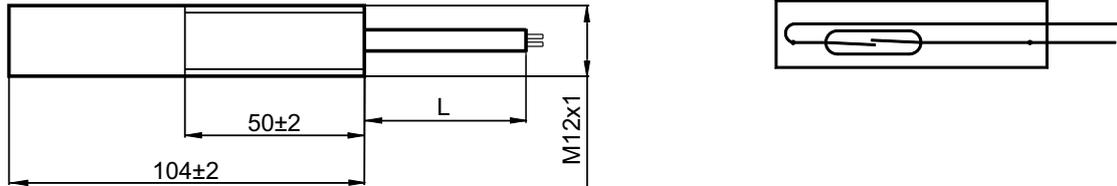
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## Reed sensor DH 97

This product is in accordance with RoHs.

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



all dimensions in mm

L– Length of wires depend on customer's requirement

DATA SCAN	Unit	TYPE
		DH97
Contact form		normally open
Pull-in Ampere turns	AT	30 ÷ 60
Switching power	max W,VA	12
Switching voltage	max V <sub>DC,AC</sub>	150
Switching current	max A	0,5
Carry current	max A	1,5
Contact resistance	max mΩ	150
Breakdown Voltage	min V <sub>DC</sub>	200
Operate time incl. bounce time	max ms	1,0
Release time	max ms	0,1
Environment category acc. to IEC 68-2-1÷ 3		40/85/21
Connecting wire		LIYY 2x0,34 mm <sup>2</sup>
Housing		Plastic case

Typical applications:  
 garage doors, elevators.



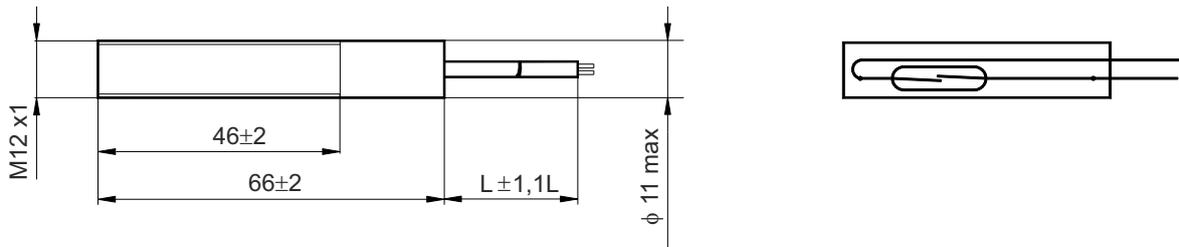
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## Reed sensor DH 98

This product is in accordance with RoHs.

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



all dimensions in mm

L – Length of wires depend on customer's requirement

DATA SCAN	Unit	TYPE
		<b>DH98</b>
Contact form		normally open
Pull-in Ampere turns	AT	30 ÷ 60
Switching power	max W,VA	12
Switching voltage	max V <sub>DC,AC</sub>	150
Switching current	max A	0,5
Carry current	max A	1,5
Contact resistance	max mΩ	150
Breakdown Voltage	min V <sub>DC</sub>	200
Operate time incl bounce time	max ms	1,0
Release time	max ms	0,1
Environment category acc. to IEC 68-2-1 ÷ 3		40/85/21
Connecting wire		LIYY 2x0,34 mm <sup>2</sup>
Housing		Non-magnetic metallic case

Typical applications:  
 garage doors, elevators.



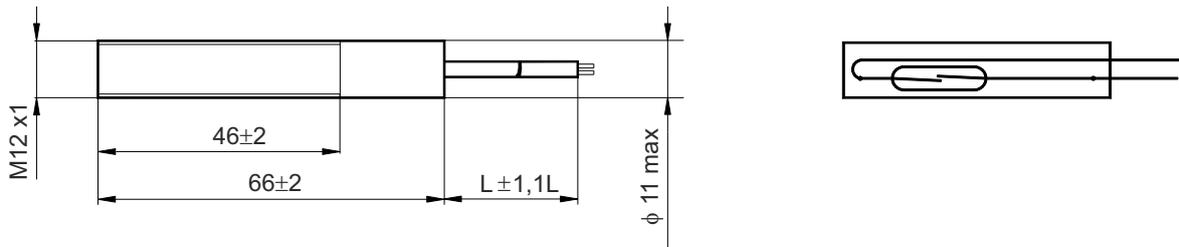
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## Reed sensor DH 99

This product is in accordance with RoHs.

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



all dimensions in mm

L – Length of wires depend on customer's requirement

DATA SCAN	Unit	TYPE
		DH99
Contact form		normally open
Pull-in Ampere turns	AT	45 55
Switching power	max W,VA	180
Switching voltage	max V <sub>DC,AC</sub>	230
Switching current	max A	3,0
Carry current	max A	5,0
Contact resistance	max mΩ	150
Breakdown Voltage	min V <sub>DC</sub>	400
Operate time incl. bounce time	max ms	2,5
Release time	max ms	0,2
Environment category acc. to IEC 68-2-1	3	40/85/21
Connecting wire		LIYY 2x0,34 mm <sup>2</sup>
Housing		Non-magnetic metallic case

Typical applications:  
 garage doors, elevators.



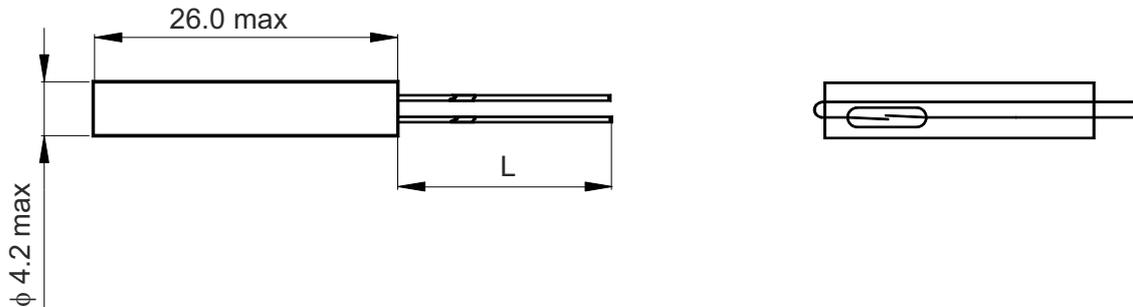
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## Reed sensor MSR-140/05

This product is in accordance with RoHS

Sensors are operated by permanent magnets, sizes and parameters of which depend on user's applications. Sensitivities of reed switches are indicated below expressed as ampere turns measured in standard coil.

In case doubts please contact the producer.



L\* - Length of wires depends on customer's requirement  
 all dimensions in mm

DATA SCAN	Unit	TYPE
		<b>MSR-140/05</b>
Contact form		normally open
Pull-in Ampere turns	AT	10 ÷ 15
Switching power	max W,VA	10
Switching voltage	max V <sub>DC,AC</sub>	50
Switching current	max A	0,5
Carry current	max A	1,0
Contact resistance	max mΩ	100
Breakdown Voltage	min V <sub>DC</sub>	100
Operate time incl bounce time	max ms	1
Release time	max ms	0,1
Environment category acc. to IEC 68-2-1 ÷ 3		40/85/21
Connecting wire		0,14 mm <sup>2</sup> (AWG 26)
Housing		Plastic case

Typical applications:  
 garage doors, elevators, washing machines.

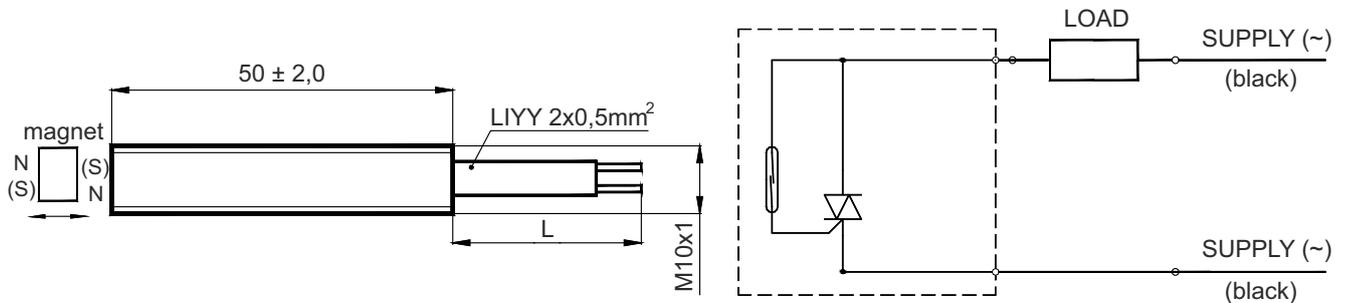


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## Triac switch 230V-100W

RoHS compliant product.

This switch is designed to operate with neodymium ring magnet with dimensions 10x7/3,5x3 (in mm). Nevertheless, other magnets with similar inductance value can be used.



L – Length of wires depends on customer's requirement

all dimensions in mm

DATA SCAN	Unit	
Contact form		Normally open
Function		omnipolar switch
Operating voltage	typ	$V_{AC}$ 230V (50Hz÷60Hz)
Max off-state current consumption		$\mu A$ 100
Output saturation voltage	max	V 2
Continuous load current	max	A 0,6
Peak load current	max	A 8
Operate point $L_{operate}$	typ	mm 6
Release point $L_{release}$	typ	mm 15
Hysteresis $L_{release} - L_{operate}$	typ	mm 9
Environment category acc. to IEC 68-2-1÷3		40/85/21
Housing		Plastic case

### Typical applications:

Automatic control systems, motion control, alarm systems, electrical household appliances. Switch is enclosed in the hermetic case – it can be used in dirty or humid environments. It can be used with inductive load also.