



ENGLISH

Datasheet

RS Pro Flat, NO, 500 mA Reed Switch

RS Stock No: **530-8949**



Product Details

RS Pro flat NO switch has a current rating of 500 mA and DC voltage rating of 500 V. It is perfect for use in extreme environments. Typical applications include door and window control, position and end switch and level sensor.

Features and Benefits

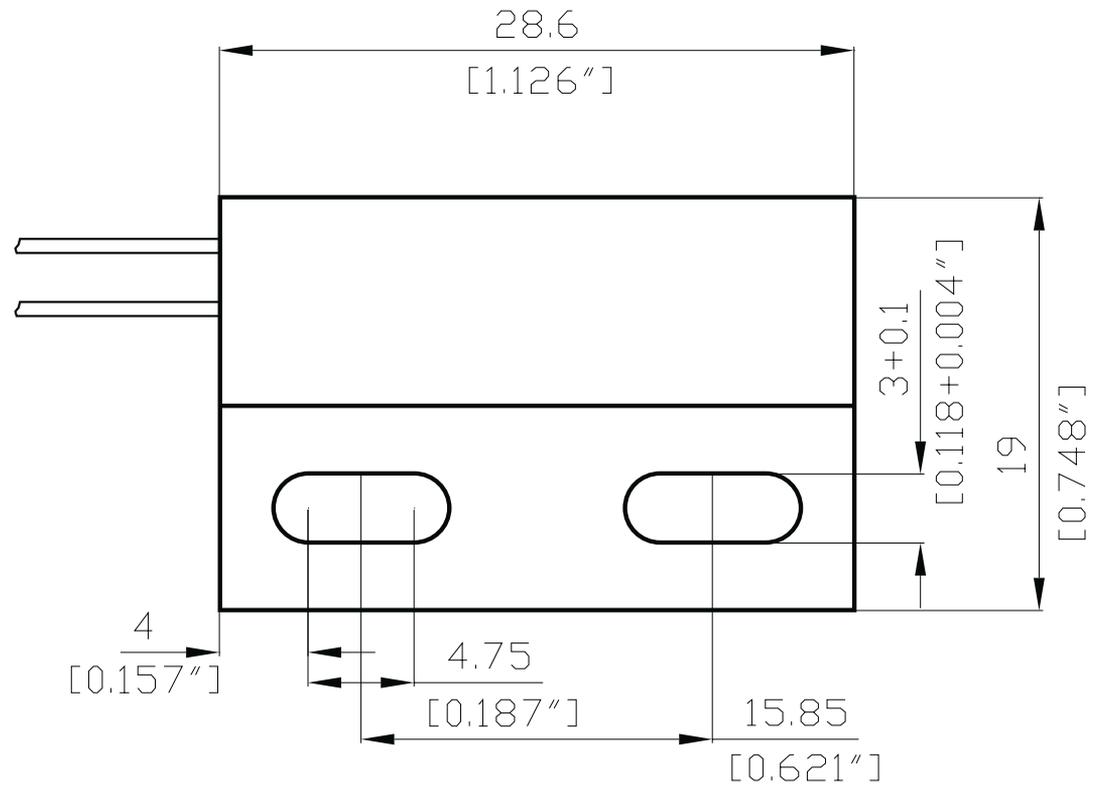
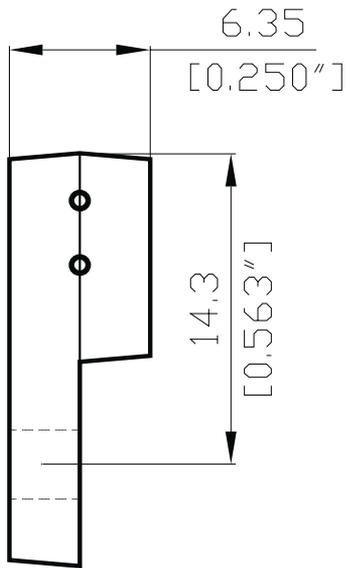
- Designed for high temperatures (150°C)
- Dimensions: H19 x L26.6 x W6.35 mm
- Screw mounting on fixed surface
- For use in extreme environments
- PTFE wire

Specifications:

Contact Position	NO
Contact Resistance	150 mΩ
Depth	6.25 mm
Dimensions	28.5 x 19 x 6.25 mm
Length	28.5 mm
Maximum AC Voltage	180 V ac
Maximum Current	0.5 A
Maximum DC Voltage	180 V dc
Maximum Operating Temperature	+150°C
Minimum Operating Temperature	-40°C
Normal State Configuration	NO
Output Type	SPST-NO
Pole and Throw Configuration	SPST
Switch Shape	Flat
Switch Type	Magnetic
Terminal Type	Screw
Total Length	28.5 mm
Width	19 mm
Application	Door & Window Contacts, Magnetic Floats for Water Level Detection, Position Sensing
Material	Epoxy Resin (Case), Radox (Cable)
Maximum Carry Current	1.25 A

DIMENSIONS

All dimensions in mm [inch]



MEDER electronic

MK21 Series

Reed Sensors with Mounting Holes for Screw Fastening

ORDER INFORMATION

Part Number Example

MK21M - 1A66 C - 500 W
 MK21P - 1A66 C - 500 W

M = molded
 P = potted

66 is the switch model
C is the magnetic sensitivity
500 is the cable length (mm)

Series	Contact-form	Switch Model	Magnetic Sensitivity	Cable Length (mm)	Termination
MK21x-	xx	xx	x -	xxx	W
Options	1 Form A	66	B, C, D, E	500*	
		52, 85	C, D, E		
	1 Form B** 1 Form C**	90	C, D, E		

* Other cable lengths available
 ** Potted version

MAGNETIC SENSITIVITY

Sensitivity Class	Pull In AT Range
B	10 - 15
C	15 - 20
D	20 - 25
E	25 - 30

TERMINATION

For wire and termination details, as well as other magnetic sensitivity classes please contact factory.

W		The cable cut length includes: 5 mm of wire stripped and tinned.
----------	---	---

MK21 Series MEDER electronic

Reed Sensors with Mounting Holes for Screw Fastening

CONTACT DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 52 Form A			Switch 66 Form A			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Contact Ratings	Conditions							
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			50 70 (VA)			10	W
Switching Voltage	DC or peak AC			250			200	V
Switching Current	DC or peak AC			0.5			0.5	A
Carry Current	DC or peak AC			2.5			1.25	A
Static Contact Resistance	w/ 0.5 V & 10 mA			200			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA, 1.5 ms after closure						200	mΩ
Insulation Resistance across Contact	100 volts applied	10 ¹⁰			10 ¹⁰ *			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	600			225*			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			1.0			0.5	ms
Release Time	Measured w/ no coil suppression			0.1			0.1	ms
Capacitance	at 10 kHz cross contact		0.2			0.2		pF
Contact Operation **								
Must Operate Condition	Steady state field	10		30	10		60	AT
Must Release Condition	Steady state field	4		27	4		54	AT
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	M 10°C/ minute max. allowable	-20		85	-30		150	°C
Ambient Temperature	P 10°C/ minute max. allowable	-35		85	-20		85	°C
Stock Temperature	10°C/ minute max. allowable			260	-40		160	°C
Soldering Temperature	5 sec.			260			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.								
* Insulation resistance of 10 ¹² and breakdown voltage of 480 VDC is available.								
** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.								

MEDER electronic
MK21 Series
Reed Sensors with Mounting Holes for Screw Fastening
CONTACT DATA

All Data at 20° C	Switch Model → Contact Form →	Switch 85 Form A			Switch 90 Form B/C, potted			Unit
		Min.	Typ.	Max.	Min.	Typ.	Max.	
Contact Ratings	Conditions							
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			100			20	W
Switching Voltage	DC or peak AC			400			175	V
Switching Current	DC or peak AC			1.0			0.5	A
Carry Current	DC or peak AC			2.5			1.0	A
Static Contact Resistance	w/ 0.5 V & 10 mA			150			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50 mA , 1.5 ms after closure			200			250	mΩ
Insulation Resistance across Contact	100 volts applied	10 ¹⁰			10 ⁹			Ω
Breakdown Voltage across Contact	Voltage applied for 60 sec. min.	4000			200			VDC
Operate Time incl. Bounce	Measured w/ 100 % overdrive			1.0			0.7	ms
Release Time	Measured w/ no coil suppression			0.1			1.5	ms
Capacitance	at 10 kHz cross contact		0.2			1.0		pF
Contact Operation **								
Must Operate Condition	Steady state field	20		60	15		40	AT
Must Release Condition	Steady state field	12		54				AT
Environmental Data								
Shock Resistance	1/2 sinus wave duration 11 ms			50			50	g
Vibration Resistance	From 10 - 2000 Hz			20			20	g
Ambient Temperature	M 10°C/ minute max. allowable	-20		85	-20		85	°C
Ambient Temperature	P 10°C/ minute max. allowable	-35		85	-35		85	°C
Stock Temperature	10°C/ minute max. allowable			260			260	°C
Soldering Temperature	5 sec.			260			260	°C
Please note: The indicated electrical data are maximum values and can vary downwards when using a more sensitive switch.								
* Insulation resistance of 10 ¹² and breakdown voltage of 480 VDC is available.								
** These ranges refer to the uncut / unmodified Reed Switches described in our Reed Switch section. Consult factory if more detail is required.								