



**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)

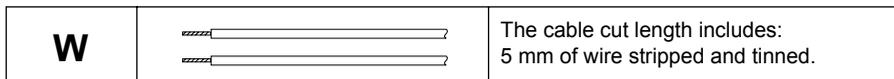
Series	Contact-form	Switch Model	Magnetic Sensitivity	Cable Length (mm)	Termination
MK21x-	xx	xx	x -	xxx	W
Options	1 Form A	66	B, C, D, E	500*	
		52, 85	C, D, E		
	1 Form B** 1 Form C**	90	C, D, E		
* Other cable lengths available ** Potted version					

**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.



## 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
	Conditions	Min.	Typ.	Max.	Min.	Typ.	Max.	
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 <sup>10</sup>			10 <sup>10*</sup>			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
<b>Contact Operation **</b>								
Must Operate Condition	Steady state field	10		30	10		60	AT
Must Release Condition	Steady state field	4		27	4		54	AT
<b>Environmental Data</b>								
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 <sup>12</sup> 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.								

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.	
<b>Contact Ratings</b>	<b>Conditions</b>							
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 <sup>10</sup>			10 <sup>9</sup>			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
<b>Contact Operation **</b>								
Must Operate Condition	Steady state field	20		60	15		40	AT
Must Release Condition	Steady state field	12		54				AT
<b>Environmental Data</b>								
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 <sup>12</sup> 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.								