

ALCOSWITCH MINIATURE ROTARY SWITCH SERIES (MRSS)

TE Connectivity (TE)'s ALCOSWITCH Miniature Rotary Switch Series (MRSS) addresses manual programming applications. These high-quality rotary DIP switches are available in size 7.7mm square (horizontal) and 7.2mm square (vertical) for a wide range of possible applications like elevator and security system. Meanwhile the compact design offers 50% lower profile than standard DIP switches and save space around 40% PCB area. In addition, MRD Series provide more options for terminal, hexadecimal or binary code, with or without complement types to fulfill the variety requirements.

The MRSS Switches are characterized by contact rating of 0.4VA @ 20V DC or AC. Reference TE customer drawing for application instructions.

FEATURES

- Offer both SMD and THT
- Space saving with a low profile
- High reliability with 2 points contacts
- Hexadecimal or binary with 3 coding options
- Vertical and horizontal versions
- MSL 1 conformance
- Packaged in tube and tape/reel

APPLICATION

- Elevator
- Single chip
- Security system
- Lighting system
- Machinery
- Telecommunication

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MRSS SERIES – TYPE CLASSIFICATION

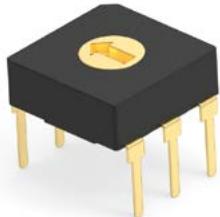
Rating	0.4VA @ 20V DC or AC MAX	
Contact Resistance	100mΩ MAX @2VDC 10mA initial	
Operation Temperature	-40°C to 85°C	
Mechanical Life	10,000 steps	
Electrical Life	10,000 steps @ 5VDC, 10mA	
Withstanding Voltage	250VAC for 1 min	
Operation Force	2.0mN-m MIN, 19.6mN m MAX	
Soldering Conditions	Manual	Temp of iron tip: 320°C MAX. for 4±1 sec
	Flow	Preheat 100 to 105°C for 30±5 sec Solder temp 265°C ±3°C for 8±2 sec
	Reflow	Preheat 160 to 190°C for 90 to 120 sec Reflow temp 225°C (switch surface) for 20 to 60 sec Peak temp 255°C (switch surface) MAX

MATERIAL SPECIFICATIONS

Components	Material	Finish	Components	Material	Finish
Case	PSS	Color: Black	Fixed contact	Cu alloy	Au flash
Frame	PSS	Color: Gray, Black, or Stainless Steel	Movable contact	Cu alloy	Au plated
Rotar	LCP	Color: White	Holder	SUS	Silver
Plate	SUS	-	-	-	-

TERMINAL

TH - VERTICAL, THROUGH HOLE TH (HEXADECIMAL)



SMGW - VERTICAL, GULLWING SM (HEXADECIMAL)



SMJ - VERTICAL, J-LEAD SM (BINARY)



SMGW - HORIZONTAL, GULLWING SM (BINARY)



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MRSS-PN LIST

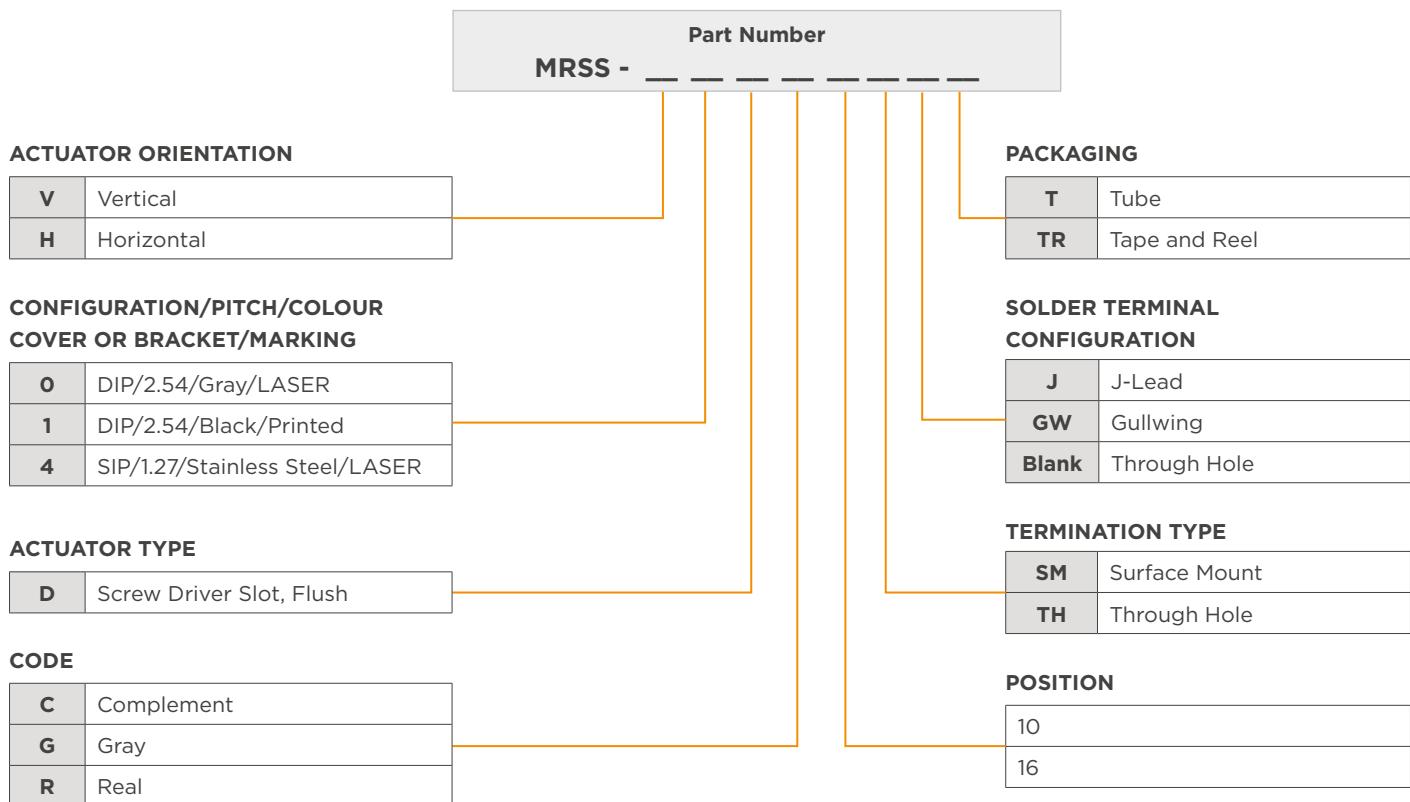
Base PN	Part Number	Smart Part Description	Orientation	Centerline	Color	Code	Position	Termination Type	Packaging
2396233	2396233-1	MRSSV0DC10SMJTR	Vertical	2.54 MM	Gray	C	10	Surface Mount	Tape & Reel
	2396233-2	MRSSV0DC10SMJTR	Vertical	2.54 MM	Gray	C	10	Surface Mount	Tube
	2396233-3	MRSSV0DC10SMGWTR	Vertical	2.54 MM	Gray	C	10	Surface Mount	Tape & Reel
	2396233-4	MRSSV0DC10SMGWT	Vertical	2.54 MM	Gray	C	10	Surface Mount	Tube
	2396233-5	MRSSV0DC10THT	Vertical	2.54 MM	Gray	C	10	Through Hole	Tube
	2396233-6	MRSSV0DC16SMJTR	Vertical	2.54 MM	Gray	C	16	Surface Mount	Tape & Reel
	2396233-7	MRSSV0DC16SMJTR	Vertical	2.54 MM	Gray	C	16	Surface Mount	Tube
	2396233-8	MRSSV0DC16SMGWTR	Vertical	2.54 MM	Gray	C	16	Surface Mount	Tape & Reel
	2396233-9	MRSSV0DC16SMGWT	Vertical	2.54 MM	Gray	C	16	Surface Mount	Tube
	1-2396233-0	MRSSV0DC16THT	Vertical	2.54 MM	Gray	C	16	Through Hole	Tube
	1-2396233-1	MRSSV0DG10SMJTR	Vertical	2.54 MM	Gray	G	10	Surface Mount	Tape & Reel
	1-2396233-2	MRSSV0DG10SMJTR	Vertical	2.54 MM	Gray	G	10	Surface Mount	Tube
	1-2396233-3	MRSSV0DG10SMGWTR	Vertical	2.54 MM	Gray	G	10	Surface Mount	Tape & Reel
	1-2396233-4	MRSSV0DG10SMGWT	Vertical	2.54 MM	Gray	G	10	Surface Mount	Tube
	1-2396233-5	MRSSV0DG10THT	Vertical	2.54 MM	Gray	G	10	Through Hole	Tube
	1-2396233-6	MRSSV0DG16SMJTR	Vertical	2.54 MM	Gray	G	16	Surface Mount	Tape & Reel
	1-2396233-7	MRSSV0DG16SMJTR	Vertical	2.54 MM	Gray	G	16	Surface Mount	Tube
	1-2396233-8	MRSSV0DG16SMGWTR	Vertical	2.54 MM	Gray	G	16	Surface Mount	Tape & Reel
	1-2396233-9	MRSSV0DG16SMGWT	Vertical	2.54 MM	Gray	G	16	Surface Mount	Tube
	2-2396233-0	MRSSV0DG16THT	Vertical	2.54 MM	Gray	G	16	Through Hole	Tube
	2-2396233-1	MRSSV0DR10SMJTR	Vertical	2.54 MM	Gray	R	10	Surface Mount	Tape & Reel
	2-2396233-2	MRSSV0DR10SMJTR	Vertical	2.54 MM	Gray	R	10	Surface Mount	Tube
	2-2396233-3	MRSSV0DR10SMGWTR	Vertical	2.54 MM	Gray	R	10	Surface Mount	Tape & Reel
	2-2396233-4	MRSSV0DR10SMGWT	Vertical	2.54 MM	Gray	R	10	Surface Mount	Tube
	2-2396233-5	MRSSV0DR10THT	Vertical	2.54 MM	Gray	R	10	Through Hole	Tube
	2-2396233-6	MRSSV0DR16SMJTR	Vertical	2.54 MM	Gray	R	16	Surface Mount	Tape & Reel
	2-2396233-7	MRSSV0DR16SMJTR	Vertical	2.54 MM	Gray	R	16	Surface Mount	Tube
	2-2396233-8	MRSSV0DR16SMGWTR	Vertical	2.54 MM	Gray	R	16	Surface Mount	Tape & Reel
	2-2396233-9	MRSSV0DR16SMGWT	Vertical	2.54 MM	Gray	R	16	Surface Mount	Tube
	3-2396233-0	MRSSV0DR16THT	Vertical	2.54 MM	Gray	R	16	Through Hole	Tube
2396234	2396234-1	MRSSVIDC10SMJTR	Vertical	2.54 MM	Black	C	10	Surface Mount	Tape & Reel
	2396234-2	MRSSVIDC10SMJTR	Vertical	2.54 MM	Black	C	10	Surface Mount	Tube
	2396234-3	MRSSVIDC10SMGWTR	Vertical	2.54 MM	Black	C	10	Surface Mount	Tape & Reel
	2396234-4	MRSSVIDC10SMGWT	Vertical	2.54 MM	Black	C	10	Surface Mount	Tube
	2396234-5	MRSSVIDC10THT	Vertical	2.54 MM	Black	C	10	Surface Mount	Tube
	2396234-6	MRSSVIDC16SMJTR	Vertical	2.54 MM	Black	C	16	Through Hole	Tape & Reel
	2396234-7	MRSSVIDC16SMJTR	Vertical	2.54 MM	Black	C	16	Surface Mount	Tube
	2396234-8	MRSSVIDC16SMGWTR	Vertical	2.54 MM	Black	C	16	Surface Mount	Tape & Reel
	2396234-9	MRSSVIDC16SMGWT	Vertical	2.54 MM	Black	C	16	Surface Mount	Tube

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2396234	1-2396234-0	MRSSV1DC16THT	Vertical	2.54 MM	Black	C	16	Surface Mount	Tube
	1-2396234-1	MRSSV1DG10SMJTR	Vertical	2.54 MM	Black	G	10	Through Hole	Tape & Reel
	1-2396234-2	MRSSV1DG10SMJTR	Vertical	2.54 MM	Black	G	10	Surface Mount	Tube
	1-2396234-3	MRSSV1DG10SMGWTR	Vertical	2.54 MM	Black	G	10	Surface Mount	Tape & Reel
	1-2396234-4	MRSSV1DG10SMGWTR	Vertical	2.54 MM	Black	G	10	Surface Mount	Tube
	1-2396234-5	MRSSV1DG10THT	Vertical	2.54 MM	Black	G	10	Through Hole	Tube
	1-2396234-6	MRSSV1DG16SMJTR	Vertical	2.54 MM	Black	G	16	Surface Mount	Tape & Reel
	1-2396234-7	MRSSV1DG16SMJTR	Vertical	2.54 MM	Black	G	16	Surface Mount	Tube
	1-2396234-8	MRSSV1DG16SMGWTR	Vertical	2.54 MM	Black	G	16	Surface Mount	Tape & Reel
	1-2396234-9	MRSSV1DG16SMGWTR	Vertical	2.54 MM	Black	G	16	Surface Mount	Tube
	2-2396234-0	MRSSV1DG16THT	Vertical	2.54 MM	Black	G	16	Through Hole	Tube
	2-2396234-1	MRSSV1DR10SMJTR	Vertical	2.54 MM	Black	R	10	Surface Mount	Tape & Reel
	2-2396234-2	MRSSV1DR10SMJTR	Vertical	2.54 MM	Black	R	10	Surface Mount	Tube
	2-2396234-3	MRSSV1DR10SMGWTR	Vertical	2.54 MM	Black	R	10	Surface Mount	Tape & Reel
	2-2396234-4	MRSSV1DR10SMGWTR	Vertical	2.54 MM	Black	R	10	Surface Mount	Tube
	2-2396234-5	MRSSV1DR10THT	Vertical	2.54 MM	Black	R	10	Through Hole	Tube
	2-2396234-6	MRSSV1DR16SMJTR	Vertical	2.54 MM	Black	R	16	Surface Mount	Tape & Reel
	2-2396234-7	MRSSV1DR16SMJTR	Vertical	2.54 MM	Black	R	16	Surface Mount	Tube
	2-2396234-8	MRSSV1DR16SMGWTR	Vertical	2.54 MM	Black	R	16	Surface Mount	Tape & Reel
	2-2396234-9	MRSSV1DR16SMGWTR	Vertical	2.54 MM	Black	R	16	Surface Mount	Tube
	3-2396234-0	MRSSV1DR16THT	Vertical	2.54 MM	Black	R	16	Through Hole	Tube
2396236	2396236-1	MRSSH4DC10SMGWTR	Horizontal	1.27 MM	Stainless Steel	C	10	Surface Mount	Tape & Reel
	2396236-2	MRSSH4DC10SMGWTR	Horizontal	1.27 MM	Stainless Steel	C	10	Surface Mount	Tube
	2396236-3	MRSSH4DC10THT	Horizontal	1.27 MM	Stainless Steel	C	10	Through Hole	Tube
	2396236-4	MRSSH4DC16SMGWTR	Horizontal	1.27 MM	Stainless Steel	C	16	Surface Mount	Tape & Reel
	2396236-5	MRSSH4DC16SMGWTR	Horizontal	1.27 MM	Stainless Steel	C	16	Surface Mount	Tube
	2396236-6	MRSSH4DC16THT	Horizontal	1.27 MM	Stainless Steel	C	16	Through Hole	Tube
	2396236-7	MRSSH4DG10SMGWTR	Horizontal	1.27 MM	Stainless Steel	G	10	Surface Mount	Tape & Reel
	2396236-8	MRSSH4DG10SMGWTR	Horizontal	1.27 MM	Stainless Steel	G	10	Surface Mount	Tube
	2396236-9	MRSSH4DG10THT	Horizontal	1.27 MM	Stainless Steel	G	10	Through Hole	Tube
	1-2396236-0	MRSSH4DG16SMGWTR	Horizontal	1.27 MM	Stainless Steel	G	16	Surface Mount	Tape & Reel
	1-2396236-1	MRSSH4DG16SMGWTR	Horizontal	1.27 MM	Stainless Steel	G	16	Surface Mount	Tube
	1-2396236-2	MRSSH4DG16THT	Horizontal	1.27 MM	Stainless Steel	G	16	Through Hole	Tube
	1-2396236-3	MRSSH4DR10SMGWTR	Horizontal	1.27 MM	Stainless Steel	R	10	Surface Mount	Tape & Reel
	1-2396236-4	MRSSH4DR10SMGWTR	Horizontal	1.27 MM	Stainless Steel	R	10	Surface Mount	Tube
	1-2396236-5	MRSSH4DR10THT	Horizontal	1.27 MM	Stainless Steel	R	10	Through Hole	Tube
	1-2396236-6	MRSSH4DR16SMGWTR	Horizontal	1.27 MM	Stainless Steel	R	16	Surface Mount	Tape & Reel
	1-2396236-7	MRSSH4DR16SMGWTR	Horizontal	1.27 MM	Stainless Steel	R	16	Surface Mount	Tube
	1-2396236-8	MRSSH4DR16THT	Horizontal	1.27 MM	Stainless Steel	R	16	Through Hole	Tube

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