

# MSR16RT Obsolete



## Features

- Removable terminal blocks
- 24V AC/DC power
- 2 N.C. dual channel input
- 3 N.O. safety outputs
- Automatic/manual or monitored manual reset
- 22.5mm wide housing

### 3 (a) Connections

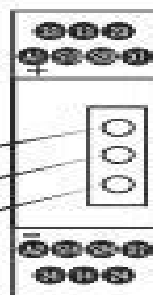
- A1 & A2 → Supply 24V AC/DC  
 S13 & S14 → Input circuit 1 (from switch)  
 S23 & S24 → Input circuit 2 (from switch)  
 R1 & R2 → Output (monitoring) monitoring and/or reset button  
 T3 & T4 → Safety output 1 (N/O)  
 T5 & T6 → Safety output 2 (N/O)  
 T7 & T8 → Safety output 3 (N/O)

### (b) LED Indication

**POWER (RED)** - Illuminated when there is power to the unit.

**K1 (GREEN)** - Illuminated when internal contacts K1 are closed.

**K2 (GREEN)** - Illuminated when internal contacts K2 are closed.



### Terminal assignments

#### MSR16RT

- A1 & A2 → Supply 24V AC/DC  
 S13 & S14 → Input circuit 1  
 S23 & S24 → Input circuit 2  
 R1 & R2 → Output monitoring and/or reset button  
 T3 & T4 → Safety output 1 (N/O) → T3 & T4  
 T5 & T6 → Safety output 2 (N/O) → T5 & T6  
 T7 & T8 → Safety output 3 (N/O) → T7 & T8  
 R.A. → Auxiliary output (N/C) → R1 & R2

#### MSR127RP/TP

- A1 & A2  
 S13 & S14  
 S23 & S24  
 R1 & R2

- T3 & T4  
 T5 & T6  
 T7 & T8  
 R.A.

# MSR127RP/TP Alternative



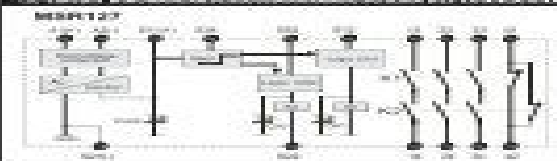
- Category 4 per EN 954-1
- 3 Safety contacts
- 1 Auxiliary contact
- Cross fault monitoring
- Monitored or automatic reset
- Removable terminals
- Single or dual channel inputs for Light curtain, E-Stop or safety gate applications

### 3 (a) Connections / Assignments / Connections



- A1 & A2 → Power  
 S13 & S14 → Input circuit 1 (N/C)  
 S23 & S24 → Input circuit 2 (N/C)  
 T3 & T4 → Safety output 1 (N/O)  
 T5 & T6 → Safety output 2 (N/O)  
 T7 & T8 → Safety output 3 (N/O)  
 R.A. → Auxiliary output (N/C)

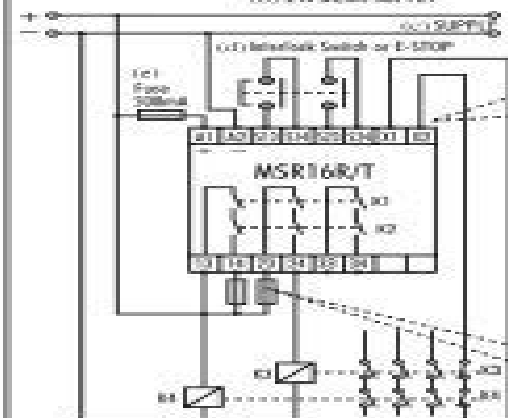
### 4 (a) WIRING EXAMPLE: DUAL CHANNEL SAFETY GATE/STOP/RESET/RESTART



## MSR16RT

### 4 (a) Wiring Example

#### (b) 24V AC/DC SUPPLY



(c) When external relay monitoring without manual reset is required, set RTT switch to T mode.

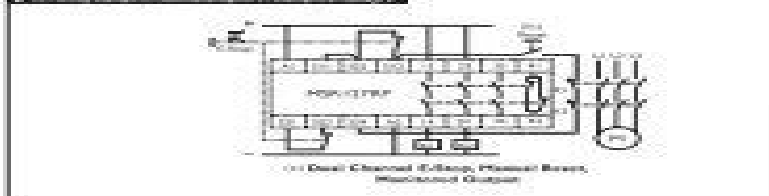
(d) When external relay monitoring and reset are not required, set RTT switch to T mode and link X1-X2.

(e) Reset (if required): Including of the input circuit, dual-channel or interlocking to start the machine and a risk assessment to EN 60959 shows that a risk stop is required, the machine has to be taken to the control circuit to prevent such a state (see EN 60959-1 clause 9.5.1 & EN 954-1 clause 5.4.6.5.2). If this is the case, set RTT switch to R mode and install a maintenance action reset switch in circuit R1-R2.

(f) Outputs should be protected by an external fuse.

## MSR127RP/TP

### 5 (a) Wiring Example: DUAL CHANNEL SAFETY GATE/STOP/RESET/RESTART



### 6 (a) Wiring Example: DUAL CHANNEL SAFETY GATE/STOP/RESET/RESTART



# Msr127tp Safety Relay Manual

**BM King**



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web aug 19 2023 we ll cover actionable tips and drills to master your running cadence avoid injury and boost performance what is cadence in running simply put running cadence is just your step rate the number of times your feet hit the ground in a given time interval what is spm in running cadence in running is typically measured in steps

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web jul 12 2023 for example let s say your starting cadence is 150 and your target is 170 you shouldn t try to hit 170 after your first cadence measurement instead try to increase your cadence by about five percent on two or three runs per week so in that first week shoot for a 157 cadence

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web over the past few years studies have emerged that highlight the role of cadence to correct common running related injuries rris as little as a five percent increase in step rate while keeping running velocity constant has been shown to reduce shock absorption at the level of the knee by 20 percent additionally increasing cadence by 10

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web oct 17 2023 recreational runners tend to have a cadence between 150 to 180 strides per minute spm faster runners as we ve seen often have a higher cadence for example eliud kipchoge the marathon world record holder is known to achieve a cadence of 190 200spm in general 170 180spm is considered a great running cadence

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web apr 16 2021 your cadence is determined by your running skill history of training and anatomy taller runners for example will naturally have lower cadences every runner has a distinct cadence style one runner may take large strides and run efficiently while another may take more steps per minute and run efficiently

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web desire maximum current rating of bus bar 630amp fault current i sc 50ka fault duration t 1sec the operating temperature rises for the busbar is operating temperature of bus bar  $\theta$  85 c final temperature of bus bar during fault  $\theta$  1 185 c temperature rise of bus bar bar during fault  $\theta$  t  $\theta$  1  $\theta$  100 c ambient

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web circuit board pcb this board is then placed into a cutout hole or slot located in the center of a bus bar figure 1 shows the alternate approach using two drv425 devices when a cutout hole or slot is placed in the center of the bus bar the current is split in two equal parts each side of the cutout will generate

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web jul 9 2018 this video outlines the basic formulas used to size electrical busbars on the distribution transmission network and is a sample of the electrical control and protection part 3 course which can

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web knowing required ampacity determine possible bus bar dimensions from this table then check the ampacity table to verify that size selected has the necessary ampacity example assume that required ampacity is 185 amps at 30 c rise this table indicates that 1 16 x 1 in size would probably be adequate this is confirmed by the ampacity

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web cross sectional area and the length determine bus bar conductor size cross sectional area 4 is equal to conductor thickness t multiplied by conductor width w a value of approximately 400 circular mils per ampere is a traditional basis for

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