

# Catalogue No: 440R-M23092

MSR138DP 24V 1NC/2NC.LC-IN 4NO-SFTY 1NC-AUX AM/MM 1.5-30S

Safety > Safety Controllers > Single Function Safety Relays > Allen-Bradley MSR Safety Relays > Single Function with Delayed Outputs



Representative Photo Only  
(actual product may vary based on configuration selections)

MSR138DP 24V DC 1NC/2NC/Light Curtain Inputs 2NO Immediate Safety Outputs 2NO Delayed Safety Outputs 1NC Auxiliary Outputs Auto-Manual/Monitored Manual 1.5-30s Delay

- Support a wide variety of input devices and output configurations
- Compact packages with removable terminals
- Ideal for relatively small safety applications and single zone control
- Available in electromechanical versions or solid-state models

## SPECIFICATIONS

Product Series	Bul. 440R - MSR138DP
Safety stop category(s) (IEC/EN 60204-1)	IEC/EN 60204-1 Stop Category 0
Safety Stop Category	Stop Cat 0 safety
Safety Performance Level(s) (ISO13849:2006)	ISO 13849:2006 PL <sub>e</sub> ISO 13849:2006
Safety Performance Level	PL <sub>e</sub> safety
MTTF <sub>d</sub> (ISO 13849:2006)	195 years
SIL Claim(s) - Machinery (IEC/EN 62061)	IEC/EN 62061 SILCL3 IEC/EN 62061
SIL Claim, Machinery	SIL CL 3 machinery
Safety Category(s) (ISO13849:1999 / EN954)	EN 954 / ISO 13849:1999 Category 3 ISO 130849:1999 EN 954 / ISO 13849:1999 Category 4
Safety Category	Cat 3, Cat 4 safety
Reset Type	Automatic / Manual Monitored Manual
Terminal Type	Removable (screw) Terminal Block
Mounting	DIN-35 Rail Mount
Material, Body / Housing	Nylon / PA6 / PA66 (Polyamide 6) material
Indicator Type	LED
Colour, Indicator	Green
Inputs	1 NC, 2 NC, 2 OSSD (Light curtain)
Output Configuration, Safety	2 NO
Output Configuration, Safety, Delayed	2 NO
Output Configuration, Auxiliary, Delayed	1 NC
Time Delay Range	1.5 ... 30s
Power ON delay	1 s
Response Time (Off → On)	15 ms
Unom, Supply Voltage, AC, Nom	24 V AC
Unom, Supply Voltage, DC, Nom	24 V DC
Switching current, Min	10 mA
I <sub>e</sub> , Rated Operational Current, AC-1, 250V	7 A@250V

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Ie, Rated Operational Current, AC-15, 250V	6 A@250V
Ie, Rated Operational Current, DC-13, 24V	3 A@24V
Power Consumption, Max	4 W
Overvoltage Category	III
Wire / Conductor Size (Min)	0.20 mm <sup>2</sup> min
Wire / Conductor Size (Max)	4 mm <sup>2</sup>
Uimp, Impulse Withstand Voltage	2.5 kV
Tightening Torque, Min	0.6 Nm
Tightening Torque, Max	0.8 Nm
Pollution Degree	2
Operating Temperature, Max	55 °C max
Operating Temperature, Min	-5 °C min
Relative Humidity, Max	90 %RH
IP rating, body / housing	IP40
IP Rating, Terminals	IP20
Material, Contacts	Silver Tin Oxide (AgSnO <sub>2</sub> ) material
Mechanical Service Life	2000000 cycles
Height	99 mm
Width	45 mm
Depth	114.5 mm
Weight	0.35 kg
Shock Acceleration (Max.)	10 g
Shock Duration (Max.)	16 ms
Vibration Displacement (Peak to Peak Max.)	0.35 mm
Vibration Frequency, Operational (Max.)	55 Hz
Standards Compliance	ANSI B11.19
Certifications	CE C-Tick C-UL-US

### REFERENCES

IECEX Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	<a href="#">440RM23092_Installation Instructions</a>
User Manual:	-
Manufacturer Datasheet:	<a href="#">440RM23092_Manufacturer Datasheet</a>
Manufacturer Catalogue & Product Selection:	-