

Technical Specification	Technische Spezifikation	Spécifications techniques	Specifiche tecniche	Especificaciones técnicas
Power supply 24V AC / DC, 115V AC, 230V AC 0.85 to 1.1 x rated voltage 50 / 60 Hz	Spannungsversorgung 24V AC / DC, 115V AC, 230V AC 0,85 bis 1,1 x Nennspannung 50 / 60 Hz	Alimentation 24V AC / DC, 115V AC, 230V AC 0,85 à 1,1 x tension nominale 50 / 60 Hz	Alimentazione 24V AC / DC, 115V AC, 230V AC 0,85 a 1,1 x tensione nominale 50 / 60 Hz	Alimentación 24V AC / DC, 115V AC, 230V AC 0,85 a 1,1 x voltaje nominal 50 / 60 Hz
Power consumption 5W	Leistungsverbrauch 5W	Consumation 5W	Consumo energetico 5W	Consumo eléctrico 5W
Safety inputs	Schutzeingänge	Contacts d'entrée de sécurité	Entrate di sicurezza	Entradas de seguridad
1 N.C., 2 N.C., 2 PNP light curtain, safety mat	1 N.C., 2 N.C., 2 PNP Lichtschranken, Sicherheitsmatte	1 N.C., 2 N.C., 2 PNP barrière photoélectrique, tapis de sécurité	1 N.C., 2 N.C., 2 PNP barriere fotoelettriche, tappeto di sicurezza	1 N.C., 2 N.C., 2 PNP cortina fotoeléctrica, alfombra de seguridad
Input simultaneity Infinite	Eingangsgleichzeitigkeit Unbegrenzt	Simultanéité des entrées Infinie	Simultanèità d'entrata Infinita	Simultaneidad de entrada Infinita
Max. allowable input resistance 45 ohms	Max. zulässiger Eingangswiderstand 45 Ohm	Résistance max. d'entrée 45 ohms	Max resistenza d'entrata permissibile 45 ohms	Resistencia máxima de entrada permitida 45 ohmios
Reset Manual monitored or automatic / manual	Rückstellung Überwacht manuell oder automatisch	Initialisation Manuelle contrôlée ou auto. / manuelle	Ripristino Manuale monitorato o autom. / manuale	Reset Manual monitorizado o auto. / manual
Outputs 7 N.O. safety, 4 N.C. auxiliary, 1 SS PNP inputs closed, 1 SS PNP outputs active	Ausgänge 7 Sicherheitsausgänge, 4 Öffner (Meldekontakte), 1 SS PNP-Ausgang geschlossen, 1 SS PNP-Ausgang aktiv	Contacts de sortie 7 N.O. de sécurité, 4 N.F. auxiliaire, 1 SS PNP entrée fermées, 1 SS PNP sorties actives	Uscite 7 N.O. di sicurezza, 4 N.C. ausil., 1 SS entrate PNP chiuse, 1 SS uscite PNP attive	Salidas 7 N.A. de seguridad, 4 N.C. de auxiliar, 1 SS PNP entradas cerrado, SS PNP salidas activo
Output rating UL: 4 x B300, 4 x R300 1 x 6 A or 7 x 4 A resistive/ 250V AC, 24V DC, solid state I/O class 2 AC-15: 6 A / 250V AC DC-13: 3 A /24V DC	Ausgangsnennbelastung UL: 4 x B300, 4 x R300 1 x 6 A oder 7 x 4 A resistiv/ 250V AC, 24V DC, Halbleiter I/O Klasse 2 AC-15: 6 A / 250V AC DC-13: 3 A /24V DC	Puissance nominale UL: 4 x B300, 4 x R300 1 x 6 A ou 7 x 4 A resistive/ 250 V ca., 24 V C.c., statique I/O class 2 AC-15: 6 A / 250 V ca. DC-13: 3 A /24 V c.c.	Potenza nom. d'uscita UL: 4 x B300, 4 x R300 1 x 6 A o 7 x 4 A resistivo/ 250 V ca., 24V CC, stato solido I/O class 2 AC-15: 6 A / 250 V ca. DC-13: 3 A /24 V CC	Potencia de salida UL: 4 x B300, 4 x R300 1 x 6 A o 7 x 4 A resistiva/ 250 V ca., 24V CC, estado sólido I/O class 2 AC-15: 6 A / 250V CA DC-13: 3 A /24V CC
Output rating (solid state) 30V DC / 20 mA short circuit protected	Ausgangsnennbelastung (Halbleiter) 30V DC / 20 mA Kurzschlusschutz	Puissance nominale (statique) 30 V ca. / 20 mA protégé contre courts-circuits	Potenza nom. d'uscita (stato solido) 30V ca. / 20 mA protetto da corto circuito	Potencia de salida (estado sólido) 30V CA / 20 mA con protección contra cortocircuitos
Fuses output (external) 6 A slow blow or 10 A quick blow	Sicherungen Ausgang (extern) 6 A träge oder 10 A flink	Fusibles sortie (externe) 6 A à fusion retardée ou 10 A à fusion rapide	Fusibili uscita (esterni) 6 A a fusione ritardata o 10 A a fusione rapida	Fusibles salida (externos) De 6 A de acción retardada o de 10 A de acción rápida
Min. switched current / voltage 10 mA / 10V	Min. geschalteter Strom / Spannung 10 mA / 10V	Intensité / tension commutée min. 10 mA / 10V	Corrente / tensione min. di commut. 10 mA / 10V	Voltaje / corriente mín. conectada 10 mA / 10V
Contact material AgSnO ₂ + 0.5µAu	Kontaktmaterial AgSnO ₂ + 0.5µAu	Matière de contact AgSnO ₂ + 0.5µAu	Materiale contatti AgSnO ₂ + 0.5µAu	Material de contacto AgSnO ₂ + 0.5µAu
Electrical life (operations) 100.000 (220V AC / 4 A / 880 VA cosp = 0.35) 500.000 (220V AC / 1.7 A / 375 VA cosp = 0.6) 1.000.000 (30V DC / 2 A / 60 W) 2.000.000 (10V DC / 0.01 A / 0.1 W)	Elektrische Lebensdauer (Betätigungen) 100.000 (220 V AC / 4 A / 880 VA cosp = 0.35) 500.000 (220 V AC / 1.7 A / 375 VA cosp = 0.6) 1.000.000 (30 V DC / 2 A / 60 W) 2.000.000 (10 V DC / 0.01 A / 0.1 W)	Durée de vie électrique (d'opérations) 100.000 (220 V AC / 4 A / 880 VA cosp = 0.35) 500.000 (220 V AC / 1.7 A / 375 VA cosp = 0.6) 1.000.000 (30 V DC / 2 A / 60 W) 2.000.000 (10 V DC / 0.01 A / 0.1 W)	Durata elettrica prevista (azionamenti) 100.000 (220 V AC / 4 A / 880 VA cosp = 0.35) 500.000 (220 V AC / 1.7 A / 375 VA cosp = 0.6) 1.000.000 (30 V DC / 2 A / 60 W) 2.000.000 (10 V DC / 0.01 A / 0.1 W)	Vida eléctrica (operaciones) 100.000 (220 V AC / 4 A / 880 VA cosp = 0.35) 500.000 (220 V AC / 1.7 A / 375 VA cosp = 0.6) 1.000.000 (30 V DC / 2 A / 60 W) 2.000.000 (10 V DC / 0.01 A / 0.1 W)
Mechanical life 10.000.000 cycles	Mechanische Lebensdauer 10.000.000 Arbeitstakte	Durée de vie mécanique 10.000.000 de cycles	Durata meccanica prevista 10.000.000 cicli	Vida mecánica 10.000.000 ciclos
Power on delay 1 s	Einschaltverzögerung 1 s	Retard à l'enclenchement 1 s	Ritardo all'accensione 1 s	Retardo de alimentación 1 s
Response time 15 ms	Reaktionszeit 15 ms	Temps de réponse 15 ms	Tempo di risposta 15 ms	Tiempo de respuesta 15 ms
Recovery time 100 ms	Wiederbereitchaftszeit 100 ms	Temps de rétablissement 100 ms	Tempo di recupero 100 ms	Tiempo de recuperación 100 ms
Impulse withstand voltage 2500 V (external wiring according rated voltage)	Prüfspannung 2500 V (ext. Verdrahtung muss der Bemessungsspannung entsprechen)	Tension impulsionnelle admise 2500 V (câblage externe selon la tension nominale)	Massima tensione d'impulso sosten. 2500 V (cablaggio esterno secondo la tensione nominale di esercizio)	Voltaje impulsivo no disruptivo 2500 V (cableado externos según tensión nominal)
Pollution degree 2	Verschmutzungsgrad 2	Indice de pollution 2	Grado di contaminazione 2	Grado de contaminación 2
Installation group Overvoltage category III, VDE 0110-1	Installationsgruppe Überspannungskategorie III, VDE 0110-1	Groupe de montage Catégorie de surtension,III, VDE 0110-1	Gruppo d'installazione Categoria di sovratensione III, VDE 0110-1	Grupo de instalación Categoría de sobrevoltaje III, VDE 0110-1
Operating temperature -5 °C +55 °C (+23 °F 131 °F)	Betriebstemperatur -5 °C +55 °C (+23 °F 131 °F)	Température de service -5 °C +55 °C (+23 °F 131 °F)	Temperatura d'esercizio -5 °C +55 °C (+23 °F 131 °F)	Temperatura operativa -5 °C +55 °C (+23 °F 131 °F)
Humidity 90% RH	Feuchtigkeit 90% RH	Humidité 90% RH	Umidità 90% RH	Humedad 90% RH
Enclosure protection IP40 (NEMA 1)	Gehäuseschutz IP40 (NEMA 1)	Indice de protection enceinte IP40 (NEMA 1)	Protezione chiusura IP40 (NEMA 1)	Protección envolvente IP40 (NEMA 1)
Terminal protection IP20	Klemmschutz IP20	Protection aux bornes IP20	Protezione terminali IP20	Protección terminales IP20
Wiring Use copper that will withstand 60 / 75 °C	Leitungsmaterial Kupferdraht mit Temperaturbeständigkeit von 60 / 75 °C	Cablâge Utiliser uniquement des fils en cuivre 60 / 75 °C	Cablaggio Utilizzare rame che possa resistere a 60 / 75 °C	Cableado Use cobre que soporte 60 / 75 °C
Conductor size 0.2 - 2.5 mm² (24 -12 AWG)	Leiterquerschnitt 0.2 - 2.5 mm² (24 -12 AWG)	Diamètre conducteur 0.2 - 2.5 mm² (24 -12 AWG)	Dimensioni conduttori 0.2 - 2.5 mm² (24 -12 AWG)	Diámetro del conductor 0.2 - 2.5 mm² (24 -12 AWG)
Torque settings - terminal screws 0.6 Nm - 0.8 Nm (5 - 7 lb-in)	Drehmomentwerte - Klemmschrauben 0.6 Nm - 0.8 Nm (5 - 7 lb-in)	Couple des vis de bornes 0.6 Nm - 0.8 Nm (5 - 7 lb-in)	Tarature di coppia - viti terminale 0.6 Nm - 0.8 Nm (5 - 7 lb-in)	Valores de par - tornillos de los terminales 0.6 Nm - 0.8 Nm (5 - 7 lb-in)
Case material Polyamide PA 6.6	Gehäusematerial Polyamid PA 6.6	Composition du boîtier Polyamide PA 6.6	Materiale cassa Poliammide PA 6.6	Material de la carcasa Poliamida PA 6.6
Mounting 35 mm DIN rail in enclosure to a min of IP54	Befestigung 35 mm DIN-Schiene in Einbaugesäuse nach mind IP54	Montage Rail DIN de 35 mm dans un boîtier IP54 minimum	Supporto Rotaia DIN 35 mm in cabina con IP54 al minimo	Montaje Riel DIN de 35 mm en envolvente a un min. de IP54
Weight 24V AC / DC: 470 g (1.04 lb) 115V AC or 230V AC: 607 g (1.34 lb)	Gewicht 24V AC / DC: 470 g (1.04 lb) 115V AC or 230V AC: 607 g (1.34 lb)	Poids 24V AC / DC: 470 g (1.04 lb) 115V AC or 230V AC: 607 g (1.34 lb)	Peso 24V AC / DC: 470 g (1.04 lb) 115V AC or 230V AC: 607 g (1.34 lb)	Peso 24V AC / DC: 470 g (1.04 lb) 115V AC or 230V AC: 607 g (1.34 lb)
Vibration 10-55 Hz, 0.35 mm	Vibration 10-55 Hz, 0.35 mm	Vibrations 10-55 Hz, 0.35 mm	Vibrazioni 10-55 Hz, 0.35 mm	Vibración 10-55 Hz, 0.35 mm

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Minotaur MSR142RTP

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Monitoring Safety Relay - Installation Instructions

Sicherheitsrelais - Installationsanleitung

Relais de sécurité de surveillance - Notice d’installation


Relé di monitoraggio di sicurezza - Istruzioni per l’installazione


Relé de seguridad de monitorización - Instrucciones de instalación

English (original)

This device is intended to be part of the safety related control system of a machine.

SAFETY NOTES
Before installation, a risk assessment should be performed to determine whether the specifications of this device are suitable for all foreseeable operational and environmental characteristics of the machine to which it is to be fitted. At regular intervals during the life of the machine check whether the characteristics foreseen remain valid.

 WARNING
Danger of serious injuries! Misuse can result in malfunction.
<ul style="list-style-type: none">The device may only be started up, assembled or retrofitted by an authorized and trained personnel. Installation must be in accordance with the following steps.

 WARNING
Danger of serious injuries! Incorrect installation or manipulation can result in serious injuries.
<ul style="list-style-type: none">Do not defeat, tamper, remove or bypass this unit.

Responsibility cannot be accepted for a failure of this device if the procedures given in this sheet are not implemented or if it is used outside the recommended specifications in this sheet.

NOTE: The safety inputs of these products are described as normally closed (N.C.), ie. with the guard closed, actuator in place (where relevant) and the machine able to be started. Exposure to shock and/or vibration in excess of those stated in IEC 60068 part: 2-6/7 should be prevented. Adherence to the recommended inspection and maintenance instructions forms part of the warranty.

NOTE: All information comply with state of this publication. Subject to change without notice.

REPAIR

If there is any malfunction or damage, no attempts or repair should be made. The unit should be replaced before machine operation is allowed.

DO NOT DISMANTLE THE UNIT.

Declaration of Conformity
 Rockwell Automation hereby declares that MSR142RTP is in conformity with Directive(s) 2004/108/EC, 2006/42/EC as specified in the Declaration of Conformity available from www. rockwellautomation.com/products/certification
 Hiermit erklärt Rockwell Automation, dass MSR142RTP wie in der Konformitätserklärung angegeben, den Richtlinien 2004/108/EG, 2006/42/EG genügt, erhältlich von www. rockwellautomation.com/products/certification

Functional Description
The unit is enabled once supply is powered up and the safety circuits are closed. The "PWR" LED is on. Safety outputs are activated by a valid reset operation. The output LEDs CH1 and CH2 are lighted. At demand of the safety function and in case of any fault the safety outputs are deenergized within the specified response time.
RESET IN CASE OF FAULT In case of any fault the internal relay circuit forces a lock-out of the unit. The LED of one output channel remains lighted. Unit can be enabled by removing the fault and cycling all safety inputs.

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RÜCKSETZEN IM FEHLERFALL
Im Fehlerfall verriegeln die internen Relais und ein Wiedereinschalten wird verhindert. Die LED eines Kanals leuchtet. Erst nach Beseitigen des Fehlers und Öffnen der Sicherheitskreise kann die Einheit wieder gestartet werden.

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