Catalogue No: **440R-S12R2**

GSR SI 24VDC 1/2NC/OSSD/SM-IN 2NO-SFTY 1SS-AUX

Safety > Safety Controllers > Single Function Safety Relays > Allen-Bradley GSR Safety Relays > Standard Relays

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

Guardmaster Single Input Safety Relay (SI), 1 Dual Channel Universal Input, 2 N.O. Safety Outputs, 1 Solid State Auxiliary Output

- Single-wire safety connection for easy expandability and wiring while maintaining a high level of safety integrity
- Universal inputs are compatible with a wide range of safety devices for maximum flexibility
- Optional Ethernet/IP connectivity for integration into standard control systems
- Cabling for this range can be found in **Section 12 "Terminals and Pre-Wired Cables"**

SPECIFICATIONS	
Product Series	Bul. 440R - GSR
Safety Performance Level(s) (ISO13849:2006)	ISO 13849:2006 PLe ISO 13849:2006
Safety Performance Level	PLe safety
MTTFd (ISO 13849:2006)	262 years
SIL Rating(s) (IEC/EN 61508)	IEC/EN 61508 SIL3 IEC/EN 61508
SIL Rating	SIL 3
Safety Category(s) (ISO13849:1999 / EN954)	EN 954 / ISO 13849:1999 Category 4 ISO 130849:1999
Safety Category	Cat 4 safety
Function, Safety	Single Input (SI)
Reset Type	Automatic / Manual Monitored Manual
Terminal Type	Removable (screw) Terminal Block
Mounting	DIN-35 Rail Mount
Indicator Type	LED
Inputs	1 N.C., 2 N.C., OSSD, Safety Mat
Output Type, Safety	NO Relay Safety
Output Configuration, Safety	2 NO
Output Type, Auxiliary	DC PNP (Source) Aux
Output Configuration, Auxiliary	1 NC
Power ON delay	5.5 s
Unom, Supply Voltage, DC, Nom	24 V DC
Switching current, Min	10 mA
Ith, Thermal Current	6 A
Ie, Rated Operational Current, AC-15, 250V	1.5 A@250V
Ie, Rated Operational Current, DC-13, 24V	2 A@24V
Ue, Rated Operational Voltage, DC, min	20.4 V DC
Ue, Rated Operational Voltage, DC, max	26.4 V DC
Wire / Conductor Size (Min)	24 AWG (0.205 mm²) min

Wire / Conductor Size (Max)	12 AWG (3.31 mm²) max
Uimp, Impulse Withstand Voltage	2.5 kV
Operating Temperature, Max	55 °C max
Operating Temperature, Min	-5 °C min
IP Rating	IP40
IP Rating, Terminals	IP20
Material, Contacts	Silver Nickel (AgNi) material
Mechanical service life	10000000 cycles
Height	119.4 mm
Width	22.5 mm
Depth	113.6 mm
Weight	0.15 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
Certifications	CE C-UL-US C-Tick CCC S-Mark TUV PLe TUV Category 4

REFERENCES

IECEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	440RS12R2_Manufacturer Datasheet
Manufacturer Catalogue & Product Selection:	440RS12R2_Manufacturer Product Selection Guide