

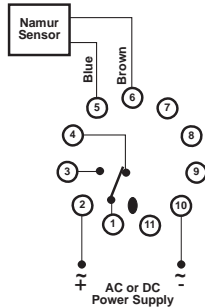


Switching Amplifier Relay for Namur Sensors

SC 300



WIRING EXAMPLE (requires optional S3-B base)



Features

- Fail-to-safe design
- Direct interface with Namur 2-wire inductive or capacitive proximity sensors
- Sensor cable open or short circuit detection via LED.
- Proximity switching in hostile supply voltage environments
- Cost effective sensor-only replacement if sensors prone to physical damage.
- Reliable with long sensor runs
- Low power signal to DIN 19234
- Supply voltages from 12VDC up to 525VAC.

ORDERING CODE

TYPE	SUPPLY VOLTAGE	AC/DC	RELAY CONTACTS
SC300	240	AC	S

Technical Specification

Power Supply:

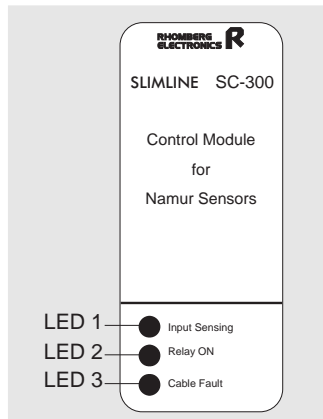
AC: 12, 24, 110, 240 (ie. 220-240), 400, 415, 525V $\pm 15\%$
Isolation (sensor input to power supply): 2kV

DC: 10-30V, 48, 60, 110V $\pm 15\%$
Isolation (sensor input to power supply): no galvanic isolation.

Proximity Sensor Input:

Type: NAMUR (DIN 19234)
eg. Rhomberg RC0-3020S-NC
Sensing speed: 25 Hz max (when using relay output)
Short circuit current: 20 mA DC.
Open circuit voltage: 8.2 VDC

Description of Controls



LED 1: The LED marked “**Input Sensing**” illuminates when the Namur sensor detects a target. It also illuminates if the sensor is disconnected or the sensor leads are severed (open circuit).

LED 2: The LED marked “**Relay ON**” illuminates when the relay is energised.

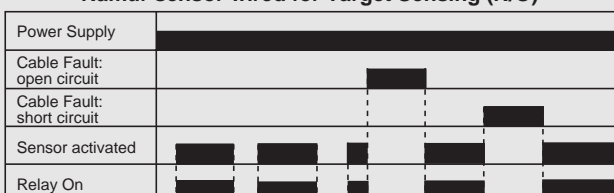
LED 3: The LED marked “**Cable Fault**” illuminates when:
- a short circuit occurs on the sensor leads.

- an open circuit occurs on the sensor leads or the sensor is disconnected.

Note: An Open Circuit condition will cause **both** LED1 as well as LED 3 to illuminate.
A Short Circuit condition will cause only LED 3 to illuminate.

Operational Diagrams

Namur sensor wired for Target Sensing (N/O)



Namur sensor wired for Space Sensing (N/C)

