

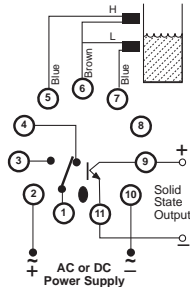


Level Control Relay (Single or Dual Level) for Namur Sensors

SC 230



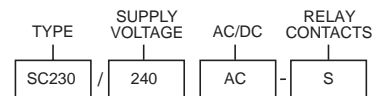
WIRING EXAMPLE (requires optional S3-B base)



Application Examples

- Level control of non-conductive liquids or granular materials using Namur capacitive sensors.
- Non-contact level control of metallic materials using Namur inductive sensors (eg. metal filings, ball bearings).
- Direction control on machinery.
- Level control of aggressive or pressurised liquids through glass using Namur capacitive sensors.

ORDERING CODE



Note: Refer to section on Rhomberg Namur proximity sensors

Technical Specification

Power Supply:

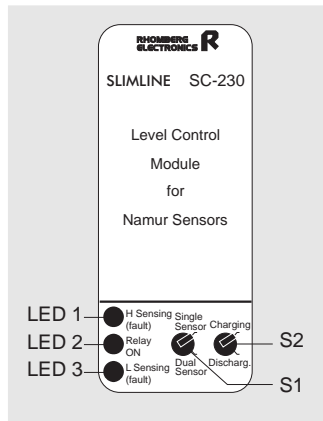
AC: 12, 24, 110, 240 (ie. 220-240), 400, 415, 525V ±15%
Isolation (sensor input to power supply): 2kV

DC: 10-30V, 48, 60, 110V ± 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



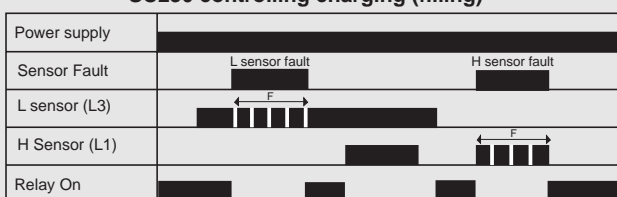
- S1: The Sensor Configuration** is selected on S1. If set to "Single Sensor", the unit is configured for single level switching (single sensor connected between pins 6 and 7). If set to "Dual Sensor", the unit is configured for dual level switching (low level sensor connected between pins 6 and 7 and high level sensor connected between pins 5 and 6).
- S2: The Mode of Operation** is selected on S2. If set to "Charging", the unit provides failsafe filling. If set to "Discharging", the unit provides failsafe draining.

- LED 1:** The LED marked "H Sensing (fault)" illuminates when the high (H) level sensor is sensing. The LED flashes if either a sensor fault or a cable fault is detected (flash rate 1 Hz).
- LED 2:** The LED marked "Relay ON" illuminates when the relay is energised.
- LED 3:** The LED marked "L Sensing (fault)" illuminates when the low (L) level sensor is sensing. The LED flashes if either a sensor fault or a cable fault is detected (flash rate 1Hz).

Note: Both LED1 and LED 3 will illuminate together under single sensor mode.

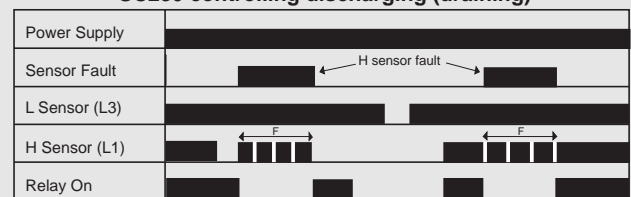
Operational Diagrams

SC230 controlling charging (filling)



Note: F = Flashing LED to indicate sensor fault

SC230 controlling discharging (draining)



Note: F = Flashing LED to indicate sensor fault