

Opto-electronic Control Relay for Rhomberg RO2 Photo-electric sensors

SC 410

RELAY CONTACTS

S

AC/DC

AC



Technical Specification

Transmitter (pin 6-7): Current pulse: 1.5A/25 microseconds. **Power Supply:** 12, 24, 110, 240 (ie. 220-240), 400, 415, 525V ±15% Short circuit current: 20mA (average) AC: Isolation (sensor input to power supply): 2kV Receiver (pin 5-6): Short circuit current: 3mA DC: 10-30V, 48, 60, 110V ± 15% Open circuit voltage: 8.2V Isolation: no galvanic isolation (common negative) Open collector NPN transistor output (pin 9-11): Maximum voltage: 30VDC Output sink current: 100mA, Response: Solid state relay output (pin 8-9): ON Delay: 0.03 - 5 seconds (adjustable) Maximum output source current: 8mA OFF Delay: 0.03 - 5 seconds (adjustable) Open circuit output voltage: 12VDC

Description of Controls

P1:



	adjusted on P1.
P2:	The OFF-response Delay is adjusted on P2.
P3:	The Light Intensity is adjusted on P3, using a fine screwdriver. (Twenty turns clockwise will adjust sensitivity from minimum to maximum).
S1:	Function Selection is provided by

The ON-response Delay is

S1. If set to "Light", the relay energises when the beam is sensed. If set to "Dark", the relay energises when the beam is interrupted.

LED 1: The LED marked "Input Sensing" illuminates whenever the transmitted light beam is sensed by the receiver.

LED 2: The LED marked "Relay ON" illuminates when the output has responded and the relay is energised.

Operational Diagrams

SC410 sel	ector switch set to Light Response (N/O)

Power Supply		
Input Sensing		
Relay ON	(^{T on}) (^{T off})	4 ^{T on} M
Ton = ON delay		



SC410 selector switch set to Dark Response (N/C)

Toff = OFF delay