



USER'S GUIDE

Installation, Operation, Maintenance Instructions



SC200 / RL202

Proximity Sensor Capacitive



Control Components Pty Ltd

Ph: +61 2 9542 8977

Fx: +61 2 9542 7978

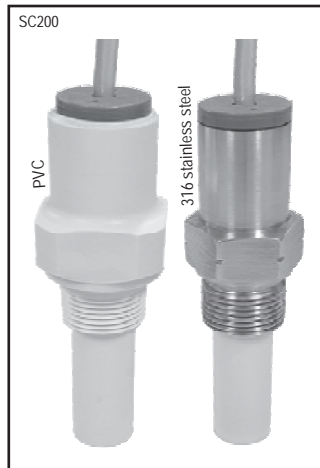
Em: help@ccezy.com.au

Web: www.ccezy.com.au

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Introduction

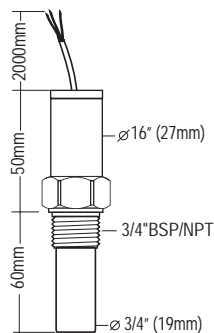


Sitron's SC200 Capacitive Proximity Sensor is used to detect the level of conductive or non-conductive products, various types of liquid, solid or granular substances such as acids, solvents, wood shavings, crushed coal, paper, glass, plastics, sugar, flour, solid aggregates, and fine filaments, etc.

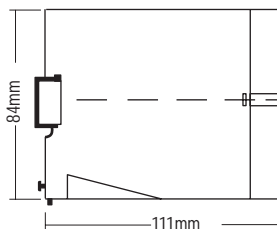
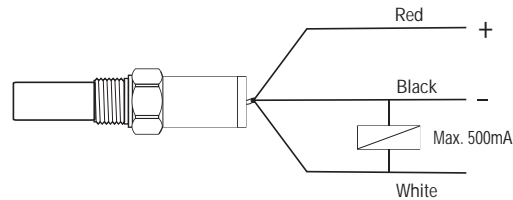
The SC200 is a compact sensor with a standard 3/4" BSP or NPT process connection made of either 316 Stainless Steel or PVC. This unit comes with a standard insertion length of 60mm and 2m cable for the electrical connection.

The SC200 has can be supplied with 12...30Vdc and when necessary, can be used in conjunction with the power supply relay RL202 which accepts 110Vac or 220Vac, with a standard relay NO + NC output.

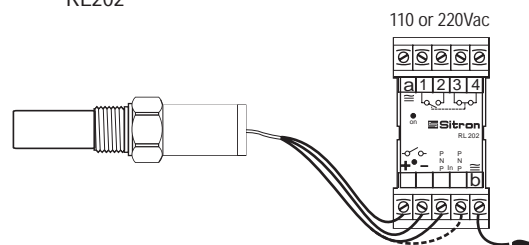
DIMENSIONS AND WIRING DIAGRAM



SC200

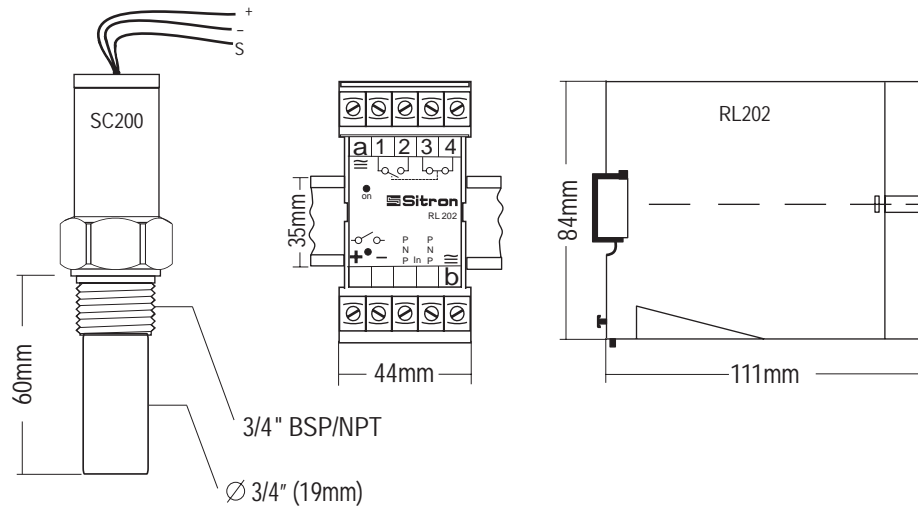


RL202



Technical Specifications

MODELS: SC200 + RL202



Application	Level switch for liquids and granular mediums
Operating Voltage	SC200: 12...30Vdc / RL202: 110 or 220Vac
Current Consumption	12mA
Output	SC200: PNP (3wires) / RL202: NA + NF
Adjustment	Sensibility
Frequency Oscillation	5MHz
Level Indication	LED status ON/OFF
Electrical Connection	Cable gland with cable 2000mm
Process Connection	3/4" BSP or NPT
Wetted Material	316 Stainless Steel with Nylon (Optional: Nylon all)
Operating Temperature	-10 to 80°C
Max Pressure	0.5 bar (25°C)
Class Protection	SC200: IP65 / RL202: IP40

Ordering Information

ORDERING INFORMATION

MODEL	
SC200	
SC200N	
SIZE	
4	3/4"
PROCESS CONNECTION TYPE	
B	BSP
N	NPT
X	OTHER - SPECIFY
TYPE OF ROD OR CABLE	
K	THREAD & BODY 316SS - PTFE TIP
L	THREAD & BODY & TIP - PTFE
G	THREAD & BODY 316SS - PVC TIP
V	BODY AND TIP IN PVC
I	BODY AND TIP IN NYLON
INSERTION LENGTH	
L60	60mm - STANDARD
INSERTION LENGTH	
L120	STANDARD 4 3/4" (120mm) SC700/SC700U
L70	STANDARD (70mm) SC750
L	SPECIFY
ELECTRICAL CONNECTION	
T	Potted w/ 2m PVC Cable
M	M12 Connector

ORDERING INFORMATION

MODELS	
RL202-11	115 VAC (50/60 Hz) 1 SPDT (5A-250 VAC)
RL202-23	230 VAC (50/60 Hz) 1 SPDT (5A-250 VAC)

NOTES:

1. The SC200 comes standard w/ PNP Transistor output
2. The SC200N comes standard w/ NPN Transistor output
3. Nylon body and tip only available with an NPT connection.

Terms & Conditions

Sitron's TERMS & CONDITIONS

Design: Sitron reserves the right to make any alterations or changes necessary to improve the Products, correct defects or to make the Products safer, without prior notice or consent by Buyer.

Pricing: All stipulated amounts shall be in US dollars and all prices quoted are valid for thirty (30) days from date of offer, unless otherwise stated.

Safety and Instructions: The Buyer ensures that it and all its representatives and agents will observe all safety and technical instructions in Sitron's operating manuals, catalogs or other directions or instructions (either written or verbal).

Delivery and Freight: All goods are sold FOB point of shipment, Brasil. Transportation to the destination is the Buyer's responsibility and Buyer alone shall bear the cost of freight, optional or other shipping requirements, and or insurance. Sitron shall not be liable for loss or damage to the Products after said Products are delivered to or received by the shipper/carrier, and all risk of damage or loss shall immediately pass to Buyer.

Receiving, unloading and storing of Products will be the responsibility of the Buyer.

Buyer also accepts that courier may choose to return Products to Sitron if any local taxes or duties are not paid by Buyer at point of delivery. Buyer must make any and all claims for corrections or deductions within ten days of the delivery of the Products.

Shipment Delays: Sitron has no control over the length of time shipments may be held at customs, etc. For this reason, Sitron commits only to a "shipment date", not a "delivery date". Buyer shall not hold Sitron liable for claims resulting from delay in shipment except in cases where these terms are accepted in writing by Sitron. Acceptance of delivery of Products by Buyer shall constitute a waiver of all claims for delay.

Partial Deliveries: While Sitron strives to deliver all orders on time and complete, Sitron reserves the right to make partial deliveries when necessary.

Changes: Any changes initiated by the Buyer which affects the products specifications; quantities ordered; delivery schedule; method of shipment or packing; or delivery location, must be made in writing and signed by both parties.

In this case, Sitron reserves the right to adjust the pricing and or delivery of the order, which will be agreed to by both parties before further work is performed on the order. Any such requests will be priced according to the scope of changes and the status of the current order. Customer must sign and return or acknowledge approval of drawings along with any Purchase Order. If approval drawings are not returned with order, the delivery date may be held or pushed back until Customer has acknowledged approval.

Cancellation: Any cancellation of the Contract by the Buyer shall be effective only if made in writing and accepted, in writing by the Sitron. In such a case, Sitron is entitled to reasonable cancellation charges including but not limited to labor, material and other related expenses.

Terms & Conditions

Termination Fee Schedule:

Order entered but not released for manufacturing	10%
Order in any stage of production	75%
Order complete and ready for shipment	100%

Warranty: Sitron warrants its product against manufacturing defects in material and workmanship, when installed in applications approved by Sitron, for a period of one year from the date of original shipment, unless otherwise stated in writing by Sitron.

Sitron is not responsible for damage to Sitron's Products or other equipment or products because of improper installation or misapplication of the Products by Buyer. Installation or startup of Sitron's equipment must be performed under the guidelines set forth in Sitron's instruction manuals, wiring diagrams, etc., or performed under the direct supervision of Sitron's field technicians or Sitron's authorized Sales Representatives, in order to be covered by Sitron's warranty.

Sitron shall be under no liability in respect to any defect from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow Sitron's instructions (whether written or verbal), misuse, modification or alteration or attempted repair of the Goods without Sitron's approval.

Sitron shall not be liable under the above warranty (or any other warranty, condition or guarantee) if the total price for the Products or the payment of Services rendered has not been paid by the due date for payment.

The Buyer must make all tools, resources or personnel available to help Sitron to diagnose the defect without any back charge. In absence of Buyer's cooperation in this regard, there shall be no liability under the above Warranty.

Sitron's liability under this warranty shall be limited to repair or replacement at Sitron's option of such defective Products, FOB factory, upon proof of defect satisfactory to Sitron. Warranty does not include transport.

Return Goods: No goods may be returned without Sitron's permission and an RMA number. Sitron assumes no responsibility for return shipments made without permission. In issuing credit for such shipments, Sitron reserves the right to charge a restocking fee dependent on Sitron's ability to recondition and resell the returned equipment.

Insurance: The responsibility for insuring the Goods after the risk in them has passed to the Buyer shall be that of the Buyer.

Confidential Information: All drawings, specifications, and technical information provided by either Buyer or Sitron shall be treated as confidential and shall not be disclosed to anyone other than those who require it as part of the fulfillment of the order. Buyer agrees that the designs and/or any other related material provided are and remain Sitron's exclusive property and that the Buyer acquires no right, title or interest to this intellectual property, whether in whole or in part.

Errors: Sitron reserves the right to correct all typographical or clerical errors or omissions, in its prices or specifications.



Sitron - Brasil
R. Baronesa de Itu, 83
São Paulo - SP - 01231-001
T: (5511) 3825-2111
F: (5511) 3825-2171

Sitron - USA
1800 Prime Place
Hauppauge, NY 11788
PH: 516-935-8001
FX: 800-516-1656

www.sitron.com
BRASIL: vendas@sitron.com
USA / Other Countries: info@sitron.com