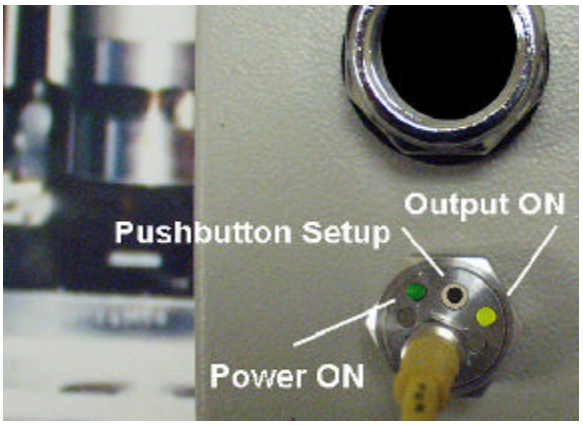
Model SC200

Sensor Control

PRIME® CONTROLS, INC.
METAL SENSING SOLUTIONS

control in tough probe locations

SC200 is a localized control for Prime's specialized sensing probes (probes not shown)
Install sensing probe in a difficult access location with the SC200 Sensor Control in a safe, near and *easy to work on* location
Digital Probe Input for precision
Teach push-button teach with single for general detection or two pushes for precision detection.
Operating Power in 12 to 24 Vdc.
Compact 18 mm barrel with push-button, power on lamp and output/sensitivity lamp.
Two quick disconnects:
Pico-style for probe connection
Micro-style for power input/output
NEW Pre-calibrate Meter indicates sensitivity capability before attempting to calibrate on a target.
Two Outputs PNP & NPN. (config. N.O. or N.C .)
PNP output voltage equals source voltage.
NPN sink to common.
Reverse polarity protection.
Sealed to IP67 rating.



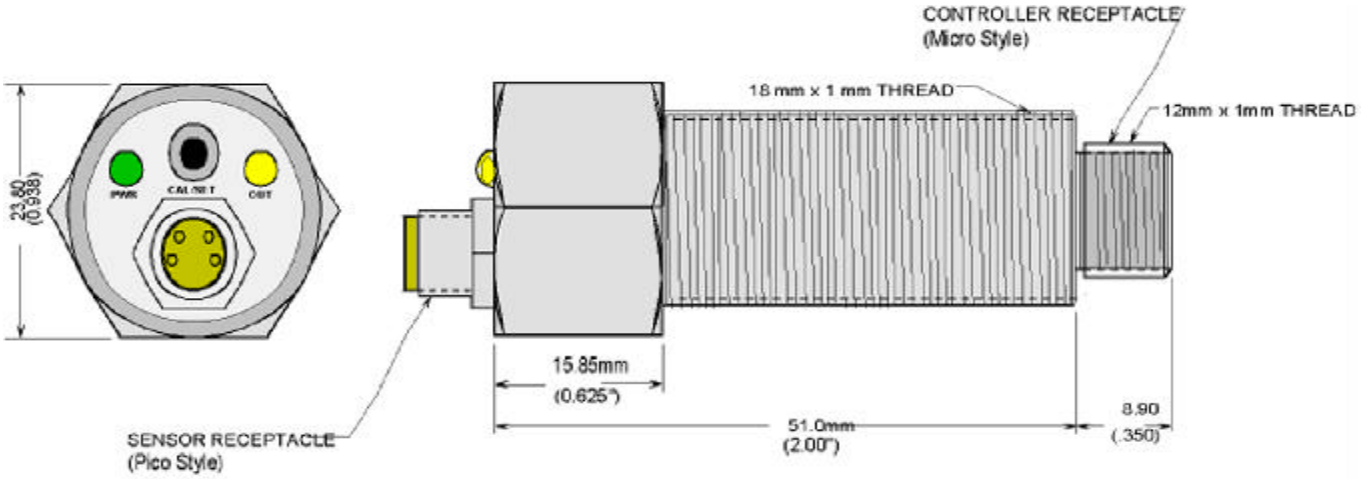
Install it in an enclosure.

Prime's Model SC200 Sensor Control provides the operator interface component of a sensing package. The system is a family of sensors that consist of two separate components. The components are sensing probe and control with operator interface. This split arrangement permits the installation of the detection probe in a harsh or unsafe location while the control is nearby, but in a safe location, easily accessible. The Model SC200 Sensor Control is sealed to IP67 standard, 18 mm threaded barrel housing with a 24 mm hex face. The control face contains indicators, push-button switch and connector. Push-button teach is used to establish the output *"ON"* setpoint(s). The Model SC200 requires 12-24 Vdc power. The green lamp indicates power is applied. The control provides power to the probe through a pico-connector & cable. The operator determined setpoint turns on the output when the probe's digital output reaches the setpoint value. The amber lamp turns on. It also turns on PNP sourcing and NPN sinking outputs. Metering mode (pretest feature) indicates system sensitivity to a target. The pretest indicates the range of sensitivity to a target by changing the flash rate of the amber lamp. Once the setpoint threshold is established, the amber lamp indicates the output status.

It's small. It's smart. It's versatile. It's convenient.

PRIME CONTROLS, INC. 4551 Gateway Circle, Dayton Ohio 45440-1711 USA Tel: 937-435-8659 Fax: 937-435-2091
E-mail: **vip@primecontrols.com** Web site: **www.primecontrols.com**

Model SC Sensor Control



Specifications

Controller Receptacle

Power /Out connect	Micro-style male four pin
Power/Out cable	Prime Model CBL104-3 Micro-style, four conductor with foil shield, 3 meter cable
Power Input:	12 to 24 DC Volts
	50 mA operating load total
Output Type:	***PNP current source***, at supply voltage, *short circuit protected*, detect = current
	NPN current sink, *short circuit protected,* detect = pulled down to common (Ov)
Out Failure Mode	Output PNP = no current, NPN = open
Max. Load Current:	24 Vdc @100 ma maximum for both PNP & NPN
I/O Response:	2 milliseconds.

Sensor Receptacle & Operator Interface

Power /Out connect	Pico-style male four pin
Power/Out cable	Prime Model CBL111-2 Micro-style,four conductor with foil shield, 2 meter cable
Power Indicator:	Green LED “ON” for power
Output Indicator:	Amber ON for detect
Detect Setpoint:	Push-button teach
Setpoint	Nonvolatile memory- power applied returns to setpoint value prior to power loss

General

Dimensions:	18mm diameter threaded barrel, 70mm length with 25mm x 15 mm hex fitting.
Material:	Body Aluminum
	Face aluminum plastic
Temperature:	5 to 75 °C (25 F to 150 F)
Mounting:	18mm threaded barrel & quantity 2-18mm mating nuts
Mounting Bracket:	Prime Models BR18SR or BR19PS or BR18PA
Sealing	IP67, Nema 4x