S100
Multi-Touch Display

Point-of-Use Interface
Without HMI Overhead

Up To Five Touch Zones

Sixteen Configurable RGB LEDs

Configurable Alphanumeric Display

IO-Link Modbus Discrete

BANNER®

A Better Fit for Point-of-Use Interaction

The S100 Multi-Touch Display closes the gap between a traditional HMI and a panel full of push buttons for routine operator tasks at the machine. It gives machine builders and system integrators a compact, configurable interface for bringing touch input, status indication, and short text prompts together without the hardware complexity of a crowded control panel or the programming complexity of a traditional HMI.

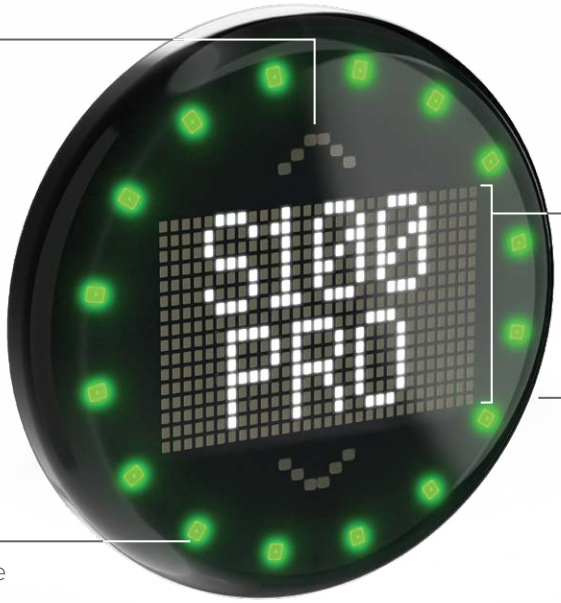
Standard Push Buttons

S100 Multi-Touch Display

More Capability Than Push Buttons. Less Complexity Than an HMI.

Traditional Panel-Mounted HMI

Integrate point-of-use operator input across **five touch zones or combine them into one large zone with configurable touch response**, including momentary and latching modes, on-delay, and more



Communicate useful information over **two scrollable five-character lines** for up to 13 characters each

Streamline deployment with **prepared modes for common applications** like timer, counter, measurement, pick-to-light, and more

Support at-a-glance awareness of machine state and task progress with **16 configurable RGB LEDs**

Confirm each touch with **haptic feedback**, a vibration operators can feel

Increase status awareness with **audible alerts**

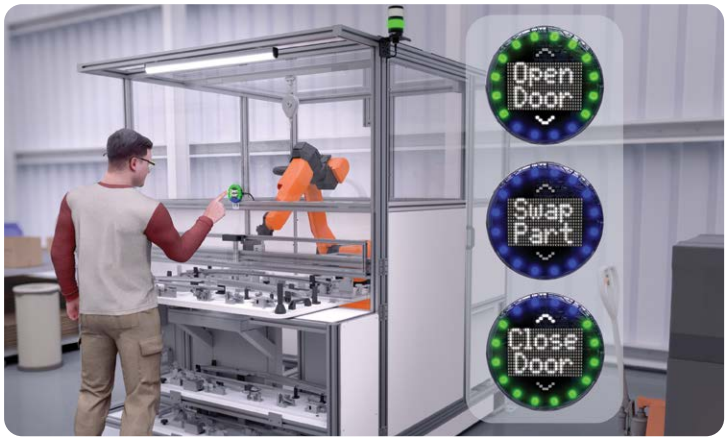
Extend the range of legibility with up to 13 characters on **one scrollable line of double-height text**

Update touch functions, display text, LED indication, and audible alerts dynamically from PLC logic with **IO-Link and Modbus models**

Streamline repeat deployment with the **discrete I/O model** by creating one Pro Editor configuration and applying it across multiple S100s

Point-of-Use Interface for Robotic Assembly Cells

IO-Link®



Challenge

Cell status, reload prompts, and operator input need to be integrated into the PLC logic controlling a robotic assembly cell. A traditional HMI requires building and maintaining a separate interface layer alongside that PLC logic, while building the interface from dedicated buttons, indicators, and displays increases installation complexity, crowds the station, and creates more maintenance points.

Solution

An S100 Multi-Touch Display with IO-Link is mounted near the load panel in an ergonomic position, with its low-profile 100 mm housing preserving operator visibility into the cell. The same PLC logic that controls the robot and cell sequence updates the S100 through an IO-Link master. When assembly is active, the load panel remains locked, the S100 displays the scrolling message “Assembling," and its 16 RGB LEDs turn red. When the cycle is complete, the PLC updates the S100 with the prompt “Open Door.” When the operator selects the prompt, haptic feedback provides tactile confirmation, and the S100 signals the PLC to unlock the load panel. The S100 then displays “Swap Part” to guide the reload step—all without the overhead of a full HMI.

Consolidated Operator Guidance for Automated Assembly Cells

PRO EDITOR SOFTWARE

Challenge

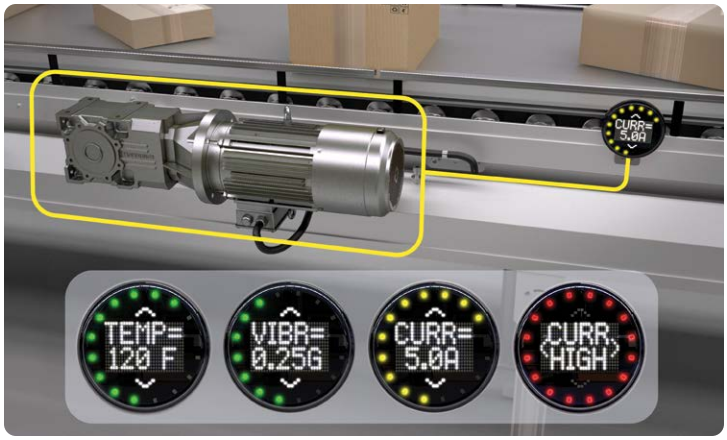
One operator monitoring multiple automated assembly cells needs machine state, required action, and input confirmation available at each cell. Providing that interaction with dedicated indicator lights, labels, display devices, and pushbuttons inflates build cost, adds complexity, and creates more maintenance points.

Solution

An S100 Multi-Touch Display with discrete I/O is mounted on each assembly cell, consolidating status indication, short text instruction, and input confirmation in one low-profile interface. Using Pro Editor Software, the cell timing sequence is configured once, then loaded to each S100 so the same operator interaction is repeated consistently across every cell. When a cell needs operator action, the S100 presents the task at the machine, accepts operator touch input to start the timing sequence, shows time as it elapses, and indicates when the part is complete.

Conveyor-Mounted Motor Status and Reset Interface

Modbus



Challenge

An overloaded conveyor section, jam, or seized roller increases motor current as a critical motor is driven toward an overload trip. When current monitoring and reset remain separated from the operator’s point of action, valuable production time is lost relaying the information needed to diagnose, respond, and recover.

Solution

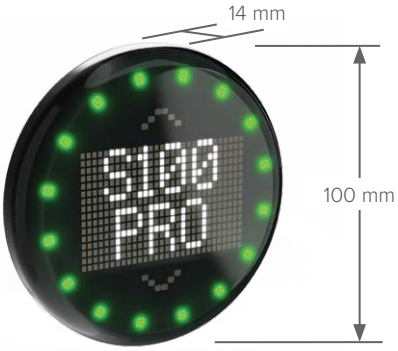
An S100 Multi-Touch Display with Modbus is mounted on the conveyor frame near the motor. The PLC polls motor-current data from an S15C Current Transformer and vibration and temperature values from a motor-mounted QM30VT3 3-Axis Vibration and Temperature Sensor, then writes those values to the S100 over Modbus. At the conveyor, those values appear on the S100's display while its 16 RGB LED ring indicates relative current-draw status including change-of-state alarms. Two touch zones provide reset input to the PLC, keeping visibility, response, and recovery at the conveyor.

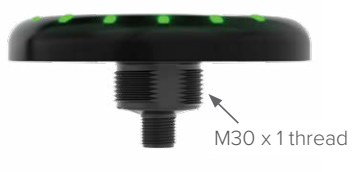
BANNER

S100 Multi-Touch Display

Description	Control	Connection	Models
100 mm Programmable Multi-Touch Display with LED Indication, Haptic Feedback, and Audible Alerts	Discrete	5-pin M12 integral QD	**S100PTVD2WAD2Q**
	IO-Link	4-pin M12 integral QD	**S100PTVD2WAKQ**
	Modbus	4-pin M12 integral QD	**S100PTVD2WASQ**

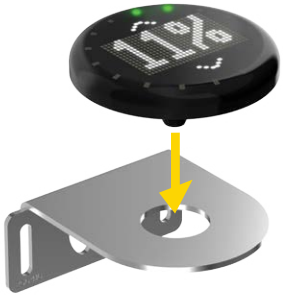
Specifications





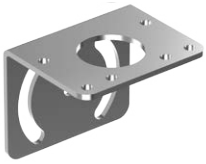
Supply Voltage	Discrete, Modbus: 12 to 30 V DC IO-Link: 18 to 30 V DC
Character Limit	Small font: 13 characters per line Large font: 13 characters
Construction	Polycarbonate
Operating Conditions	–40 to +50 °C
Environmental Rating	IP69K
Certifications	CE, UL MX-NOM

Accessories



LMB30RAS
100 mm right angle bracket

SMB30A
Right angle bracket



SMB30MM
Right angle curved mounting slot bracket

SMBAMS30P
Flat curved mounting slot bracket

4-Pin M12 Double-Ended
cordsets for use with IO-Link and Modbus models

Straight	Straight/Right Angle
BC-M12F4-M12M4-22-2 2 m (6.5 ft)	**BC-M12F4-M12M4A-22-2** 2 m (6.5 ft)
BC-M12F4-M12M4-22-5 5 m (16.4 ft)	**BC-M12F4-M12M4A-22-5** 5 m (16.4 ft)
BC-M12F4-M12M4-22-10 10 m (32.8 ft)	**BC-M12F4-M12M4A-22-10** 10 m (32.8 ft)

Programmable LED indicators offer multiple color choices in a single housing

5-Pin M12 Double-Ended
cordsets for use with discrete models

Straight	Straight/Right Angle
BC-M12F5-M12M5-22-2 2 m (6.5 ft)	**BC-M12F5-M12M5A-22-2** 2 m (6.5 ft)
BC-M12F5-M12M5-22-5 5 m (16.4 ft)	**BC-M12F5-M12M5A-22-5** 5 m (16.4 ft)
BC-M12F5-M12M5-22-10 10 m (32.8 ft)	**BC-M12F5-M12M5A-22-10** 10 m (32.8 ft)

PRO-KIT
A single Pro-Kit provides everything required to program a discrete S100 using the free Pro Editor software, and is required only for setup, not daily operation.

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