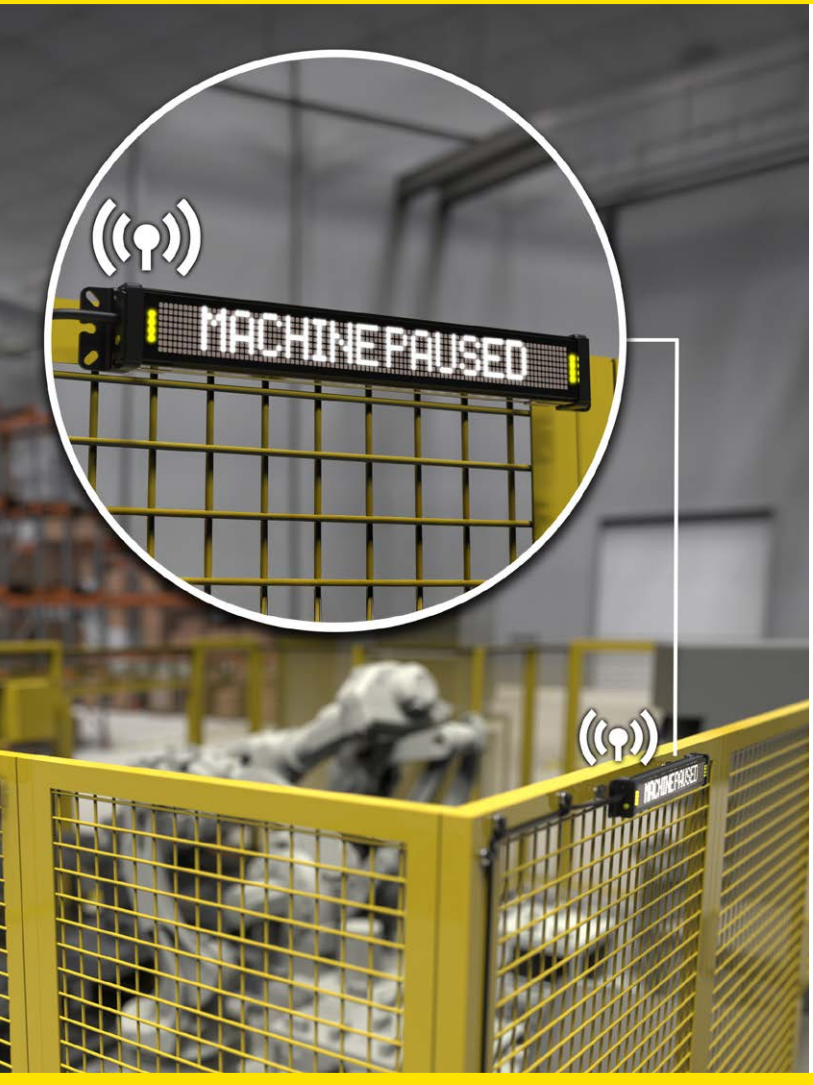
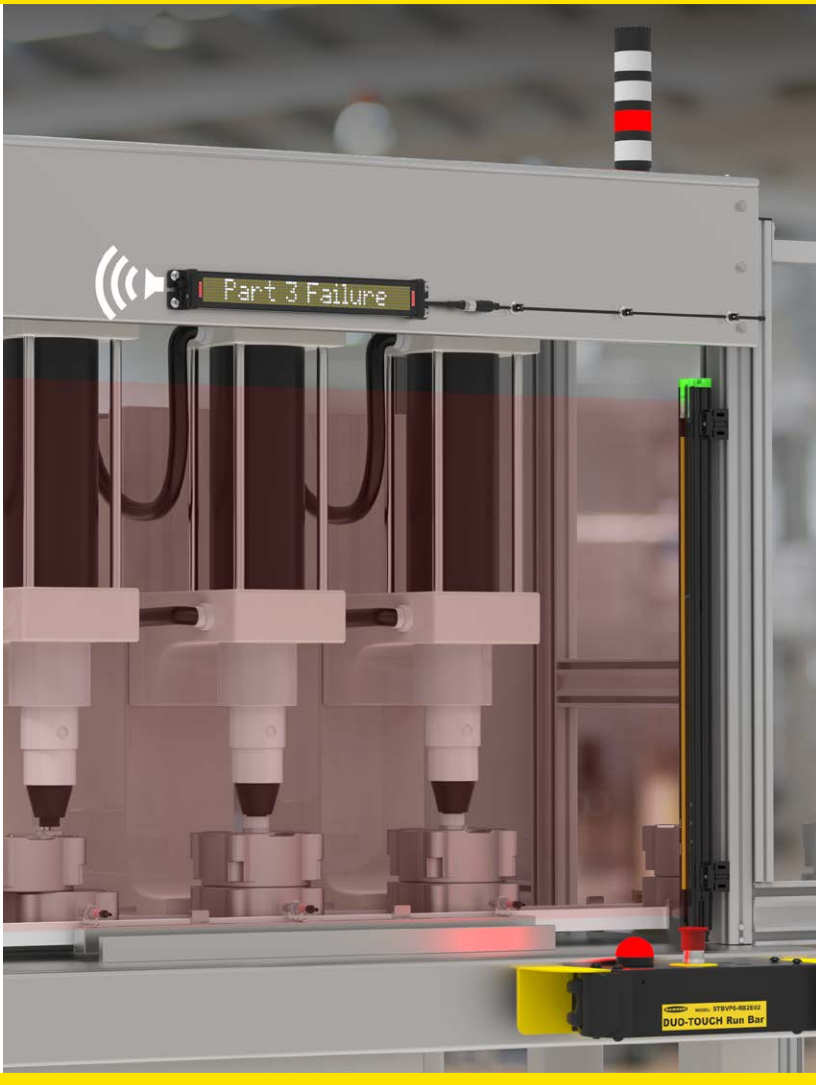
SD50 Status Display





Provide the Right Status Information in the Most Helpful Locations

- Easily configurable, versatile display can be installed nearly anywhere, making it a simple yet powerful alternative to complex HMIs and other displays
- Great for displaying takt time, equipment status, assembly sequences, counts, and measurements where they are most useful
- Discrete, IO-Link®, and Modbus® models integrate into many different systems and applications, especially Banner sensing, safety, and monitoring solutions
- Reliable wireless performance built on Banner's proven wireless serial network technology, available in 900 MHz and 2.4 GHz model options
- Quick and easy configuration—define the desired text and call it via discrete control or process data
- Bright white LED display and multicolor status LEDs, legible from 10 meters, help keep operators informed so they can respond quickly
- Audible model with 12 tones, helping operators notice high-priority events so they can check the display for more information

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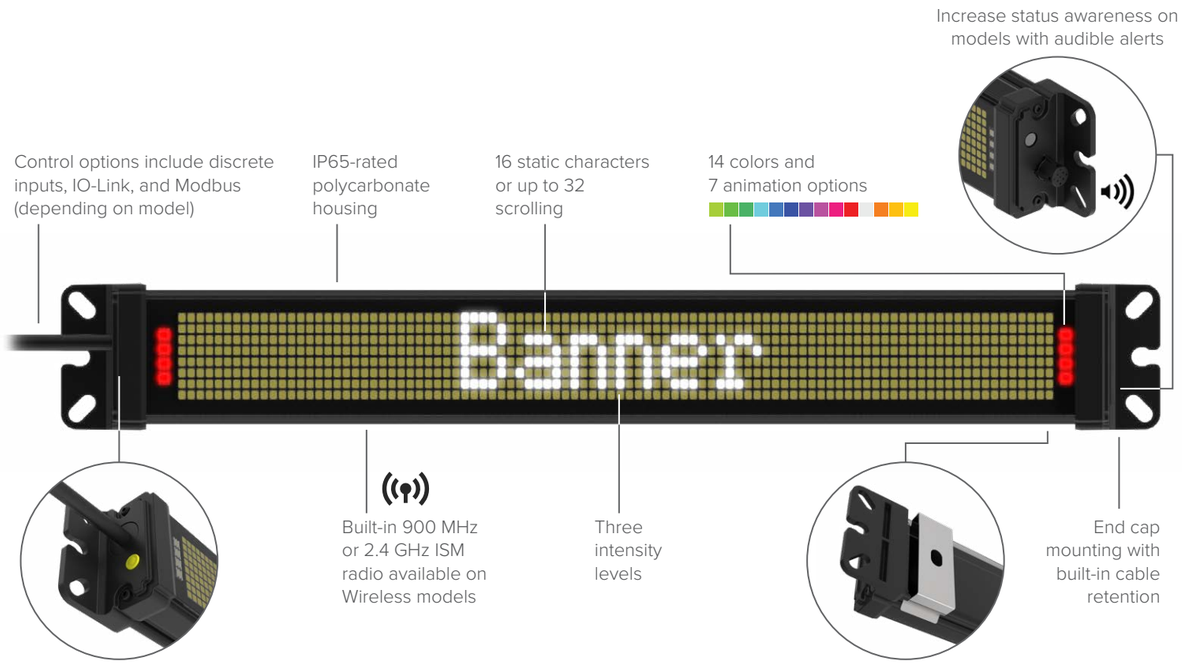
SD50 Features and Functionality



Communicate Critical Information

Equipment Status

Translate machine outputs to actionable information



Assembly Instructions

Step through sequential operator guidance



Measurement

Convert and display dynamic sensor outputs like distance, level, and more



Timer

Start, stop, and reset the timer to display takt time and more

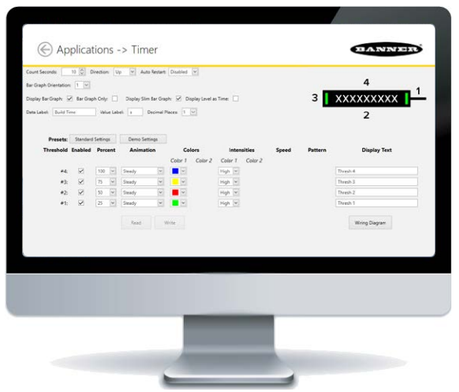


Counter

Increase or decrease the count value based on input pulses

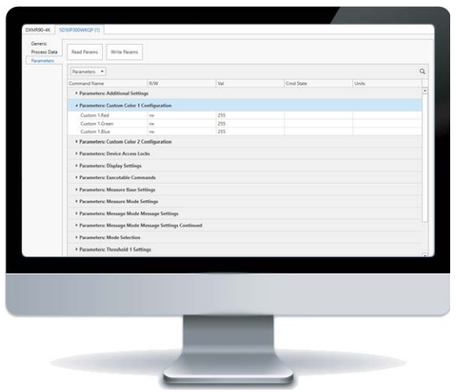


How It Works



Discrete Model

Configure text and indication via free Pro Editor software and control what is displayed via the discrete inputs (Pro converter cable sold separately)



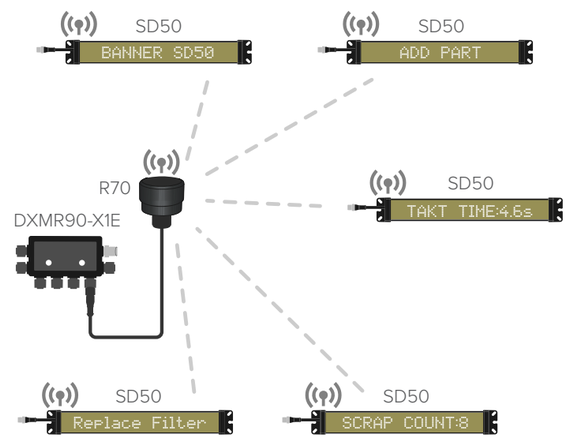
IO-Link and Modbus Models

Choose a mode and functional parameters, then use process data or holding registers to send strings and values for dynamic indication and display updates

Wireless Models

The SD50 Wireless Status Display uses its integrated 900 MHz or 2.4 GHz radio to join a network created by an R70 Serial Data Radio, which is configured as a client and linked either directly to a Modbus RTU controller or, for Modbus TCP or EtherNet/IP™ systems, through a DXMR90-X1E gateway. Each SD50 functions as a server radio communicating with the R70, forming a star topology with the R70 at the center and each SD50 as a node, while MultiHop tree configurations extend coverage when required. Once bound, the SD50 operates as a wireless Modbus device, with display content and LED indication defined by writing to its Modbus holding registers. This architecture supports straightforward expansion by binding additional SD50 units for rapid deployment and reconfiguration as needs change.

Wireless Topology



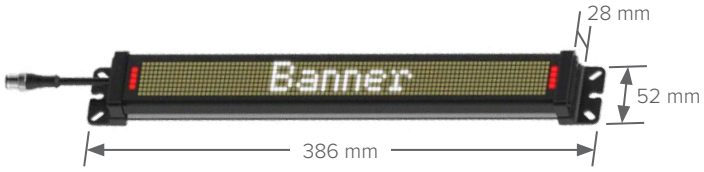
SD50 Status Display

Series	Style	Display Length	Display Text Color	Control Type	Audible	Connection
SD50	**P**	**300**	**W**	**K**		**QP**
SD50 = 50 mm status display	**P** = Pro	**300 mm**	**W** = White	**K** = IO-Link **S** = Modbus **D15** = Discrete **SR2** = 2.4 GHz* **SR9** = 900 MHz*	**A** = Audible **Blank** = None	**QP** = 150 mm PVC-jacketed cable with 4-pin M12 male QD or 150 mm PVC-jacketed cable with 5-pin M12 male QD (for Discrete models)



*R70 Serial Data Radio required for use with wireless models
2.4 GHz model: R70SR2MQ
900 MHz model: R70SR9MQ

Specifications



Supply Voltage	Discrete, Modbus, Wireless: 12 to 30 V DC IO-Link: 18 to 30 V DC
Audible Alarm	77 dB at 1 m
Construction	Polycarbonate
Operating Conditions	–20 to +50 °C
Environmental Rating	IP65
Certifications	

Accessories



LMBSD50
Clip bracket
(set of two)



LMBSD50MAG
Magnetic
clip bracket
(set of two)



LMBSD50-180S
180° clip
bracket
(set of two)



LMBSD50-180SMAG
180° magnetic
clip bracket
(set of two)



DXM1200-X2
IIoT Gateway



DXMR90-X1E
Industrial Controller



DXMR110-8K
IO-Link Master
Controller



M12 Double-ended Cordsets
Straight connector models listed; right-angle models available (example, BC-M12F4**A**-M12M4**A**-22-1)

4-Pin	5-Pin
BC-M12F4-M12M4-22-1 1 m (3.28 ft)	**BC-M12F5-M12M5-22-1** 1 m (3.28 ft)
BC-M12F4-M12M4-22-5 5 m (16.4 ft)	**BC-M12F5A-M12M5A-22-5** 5 m (16.4 ft)
BC-M12F4-M12M4-22-10 10 m (30.81 ft)	**BC-M12F5A-M12M5A-22-10** 10 m (30.81 ft)



PRO-KIT
A single Pro-Kit provides everything you need to configure text and light color on discrete models of the SD50 Status Display.

Banner's Pro Editor Software
Free Pro Editor Software makes configuring SD50 discrete models fast and intuitive. Select display modes and configure display text, LED colors, and LED animations for control via discrete inputs, bringing clear, actionable visual guidance to the visual factory.

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