

S22 Indicators and Touch Buttons



Dynamic Flush-Mount Panel Indication and Control

The S22 family of flush-mount indicators and touch buttons brings clear visual communication and interactive feedback into a compact, 22-millimeter flush-mount form factor. Standard indicators quickly communicate status visually with one, two, or three colors. Programmable indicators and touch buttons are easily configured with IO-Link®, Modbus®, or Banner's Pro Editor software for clearly conveying machine status, guiding operators, or confirming process steps. With multiple connector options and rugged housings, the S22 family delivers reliable performance while integrating neatly into panels, machines, and workstations.



S22 Programmable Indicators



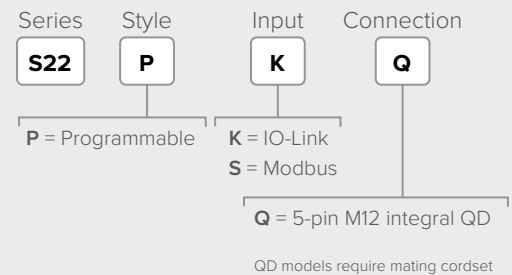
Your Go-To for Configurable Flush Mount Status

- Discrete models have either 7 or 14 colors available for visual communication, configurable using Banner's free Pro Editor software and Pro Converter Cable (sold separately)
- Models with IO-Link® or Modbus® control improve operational efficiency
 - Simplifies device replacement and installation, reduces wiring, and allows access to dynamic data
 - Provides intuitive feedback via five animations and full access to custom colors, speeds, and intensities using remote configuration
- Rugged IP67/IP69K-rated polycarbonate construction withstands harsh environments, resisting impacts and reliably operating in high-pressure, high-temperature washdown; FDA-grade plastic housing available for use in food and beverage applications

Discrete Models



IO-Link and Modbus Models



Banner's Pro Editor Software is a free tool that allows users to configure device status, colors, animations, and much more for control via discrete inputs, bringing intuitive indication and interaction to the visual factory. Configurable RGB devices make supply chains more efficient by allowing you to standardize on one model that can be customized as needed. The application-based interface makes it easy to configure a device for a wide range of applications such as displaying machine warm-up time, indicating unique steps in an assembly process, showing distance and position information, and communicating multiple machine states.



PRO-KIT
A single Pro-Kit provides everything required to program the S22 using the free Pro Editor software, and is required only for setup, not daily operation.



Programmable LED indicators offer multiple color choices in a single housing



IO-Link® for Dynamic Control

Reduced Costs and Increased Efficiency

IO-Link models allow for dynamic control—reacting to inputs from other devices—and have additional capabilities that discrete devices do not. IO-Link enables users to change device parameters from the control system as needed, such as during product changeover, which reduces downtime and allows machines to accommodate greater product diversity. These models also offer unique LED color management to provide advanced users with total control.

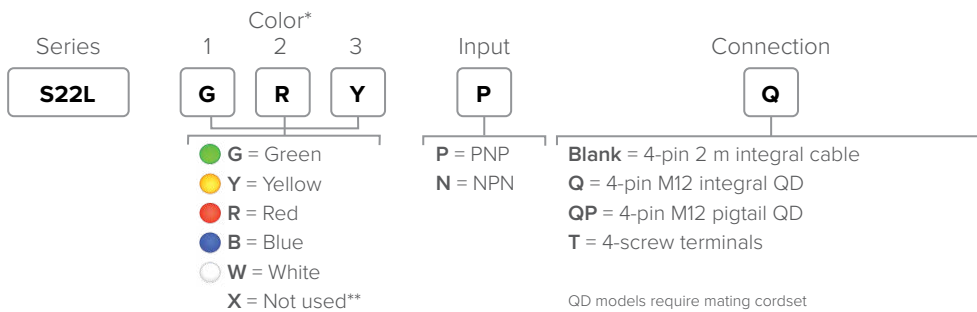
S22 Indicators



Essential Panel Indication

- One-, two-, or three-color indication for simple, dependable signaling of machine states and operating conditions
- Standard and daylight visible models available for reliable status indication across a wide variety of ambient lighting conditions
- Domed face provides wide 180° viewing angle
- Choice of PNP or NPN input delivers compatibility with a wide range of controller and wiring needs
- Rugged IP67/IP69K-rated polycarbonate construction withstands harsh environments, resisting impacts and reliably operating in high-pressure, high-temperature washdown

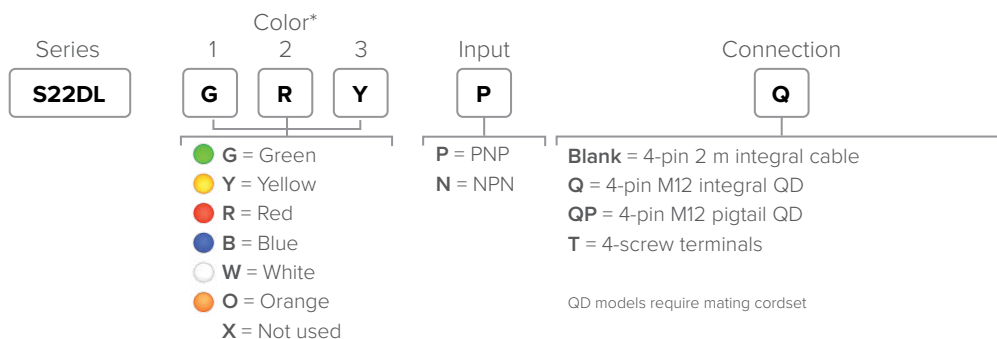
Standard Models



*Single-color models are available and should be ordered as PNP, but can be wired for either PNP or NPN input.

**For single-color or two-color models, not used colors are listed last
Ex. S22LGXXPQ

Daylight Visible Models



Laser Marking Available

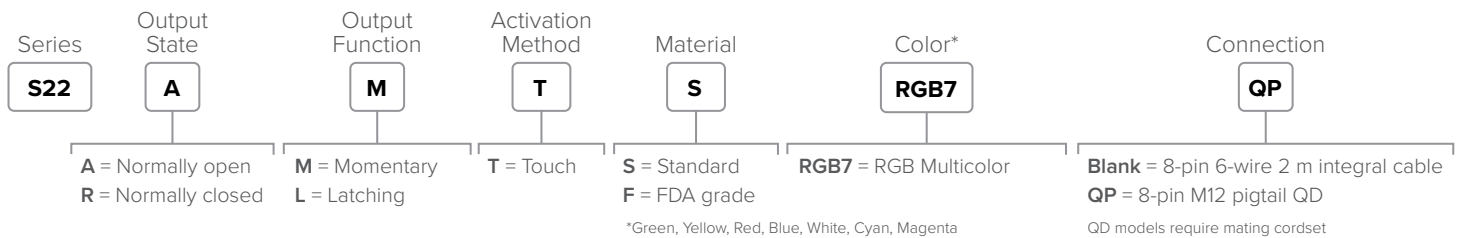
S22 Programmable Touch Buttons



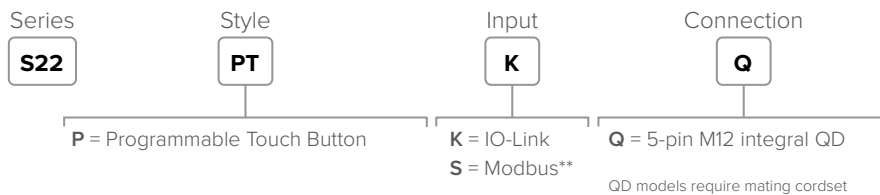
Flush-Mount Guidance and Feedback

- Touch buttons enable reliable, effortless, accurate operation, with capacitive touch technology that works with bare or gloved hands and requires no physical force, reducing hand, wrist, and arm strain
- Two-way touch-button communication clarifies processes and improves operator accuracy, speed, and precision
- Solid-state design eliminates maintenance, eliminating mechanical wear points and enabling a long, reliable operational lifespan
- Pick-to-light models with Modbus are powered by Banner's PICK-IQ®, which enables greater pick speed and accuracy; models that use Banner's easy-to-use Pro Editor software rely on easily configurable pick logic
- Rugged IP67/IP69K-rated polycarbonate construction withstands harsh environments, resisting impacts and reliably operating in high-pressure, high-temperature washdown; FDA-grade plastic housing available for use in food and beverage applications

Discrete Models



IO-Link and Modbus Models

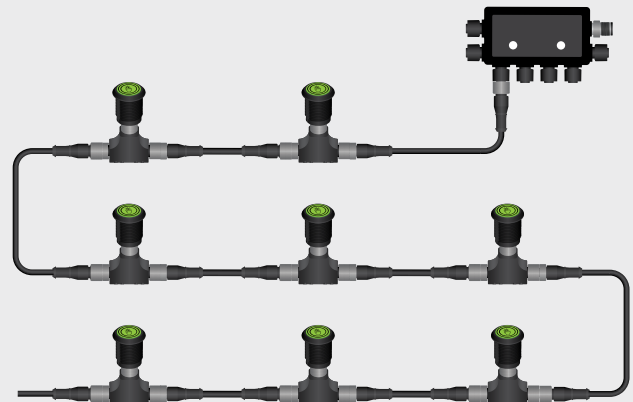


**Supports PICK-IQ programming

PICK-IQ® for High Device Density

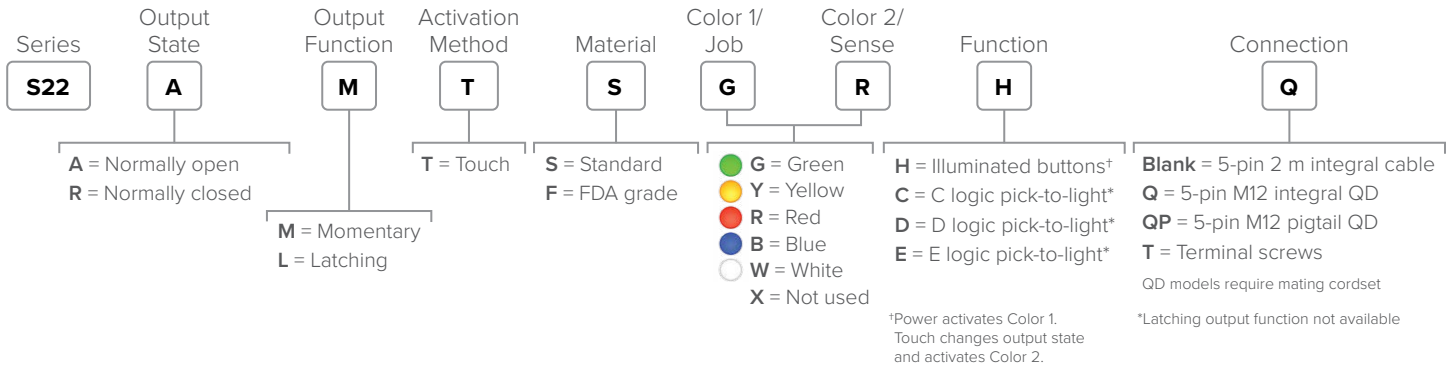
Faster Response Speed and Simplified Programming

PICK-IQ is a purpose-built serial protocol that maintains high speeds even in networks with a high device count. Devices with PICK-IQ allow full access to color, flashing, rotating, and dimming settings as well as advanced animations such as process statuses and LED control. Devices with PICK-IQ are typically used in pick-and-put walls, light-guided assembly, and other high-density installations with close device proximity.















Programmable Discrete I/O Models

One- or Two-Color/Function Models



Function State Table for Pick-to-Light Models

	Input	Touch	Output	C Function	D Function	E Function
State 1	Off	None	None	 Off	 Off	 Off
State 2	On	None	None	 On: Color 1	 On: Color 1	 On: Color 1
State 3	Off	Yes	Yes	 On: Color 2	 Off	 On: Color 2
State 4	On	Yes	Yes	 On: Color 2	 On: Color 1	 On: Color 1

C Function:

Two-color operation: the device turns on to Color 1 when the input signal is active, then confirms the pick by changing to Color 2 when touched.

D Function:

Single-color operation: the device turns on to Color 1 when the input signal is active, then advances the pick sequence by turning on the output when touched (light remains Color 1).

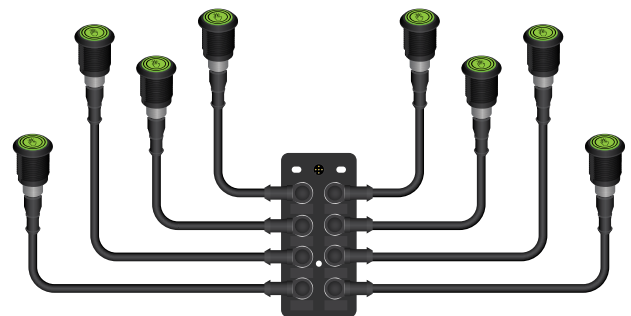
E Function:

Two-color operation: the device turns on to Color 1 when the input signal is active; when touched, it advances the pick sequence by turning on the output (input active) or provides touch indication by changing to Color 2 (input inactive).

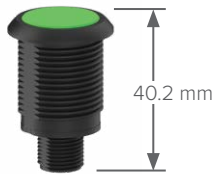
Locally Programmed Logic

Discrete I/O models use hardwired inputs and touch to control indicator behavior and outputs, with logic configured locally using Banner's free Pro Editor software

Three pick-to-light logic functions are available (depending on model), each defining how the device changes state in response to an input signal and a touch.



Specifications



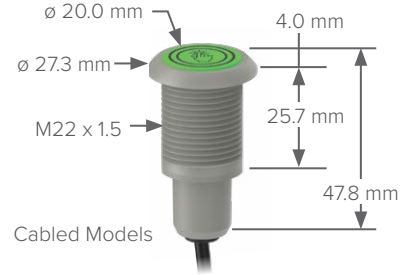
QD Models



Standard Models



Terminal Models



Cabled Models

Indicators

Supply Voltage	Standard and Programmable: 10 to 30 V DC Modbus: 12 to 30 V DC IO-Link: 18 to 30 V DC High-Intensity: 9 to 30 V DC
Construction	Housing: Polycarbonate or FDA grade plastic, depending on model Translucent dome: Polycarbonate or FDA grade plastic, depending on model Mounting Nut: PBT or FDA food grade plastic
Operating Conditions	-40 to +50 °C
Environmental Rating	Standard: IP67, IP69K Programmable: UL Type 4x, 13 IO-Link and Modbus: IP66, IP67, IP69K FDA Grade: UL Type 4x (indoor) Cable, Pigtail, QD: IP66, IP67, IP69K Terminal: IP66, IP69K on front only

Certifications



Touch Buttons

Supply Voltage	Programmable: 10 to 30 V DC Modbus: 12 to 30 V DC IO-Link: 18 to 30 V DC
Supply Protection Circuitry	Protected against reverse polarity and transient voltages
Construction	Housing: Polycarbonate or FDA grade plastic, depending on model Translucent dome: Polycarbonate or FDA grade plastic, depending on model Mounting Nut: PBT or FDA grade plastic
Operating Conditions	-40 to +50 °C
Environmental Rating	Programmable: UL Type 4x, 13 IO-Link and Modbus: IP66, IP67, IP69K FDA Grade: UL Type 4x (indoor) Cable, Pigtail, QD: IP66, IP67, IP69K on front and back Terminal: IP66, IP67, IP69K on front only

Certifications



Accessories



SMB22A

SMB22FVK



SMBAMS22P

5-Pin M12

Straight connector models listed; for right-angle models, add **A** to the end of **M12F5** (example, BC-M12F5A-22-2)



BC-M12F5-22-2

2 m (6.5')

BC-M12F5-22-5

5 m (16.4')

BC-M12F5-22-10

10 m (32.8')

8-Pin M12

Straight connector models for use with discrete programmable touch buttons



BC-M12F8-24-2

2 m (6.5')

BC-M12F8-24-5

5 m (16.4')

BC-M12F8-24-10

10 m (32.8')

5-pin M12 Washdown

Straight connector models only



MQDC-WDSS-0506

2 m (6.5')

MQDC-WDSS-0515

5 m (15')

MQDC-WDSS-0530

9 m (30')



Custom Laser Marking

- Makes devices more intuitive to use, eliminating confusion and improving operator performance
- Lights can be permanently marked with custom text or images
- Contact a Banner representative to request custom laser marking



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PN 188900 rev. A