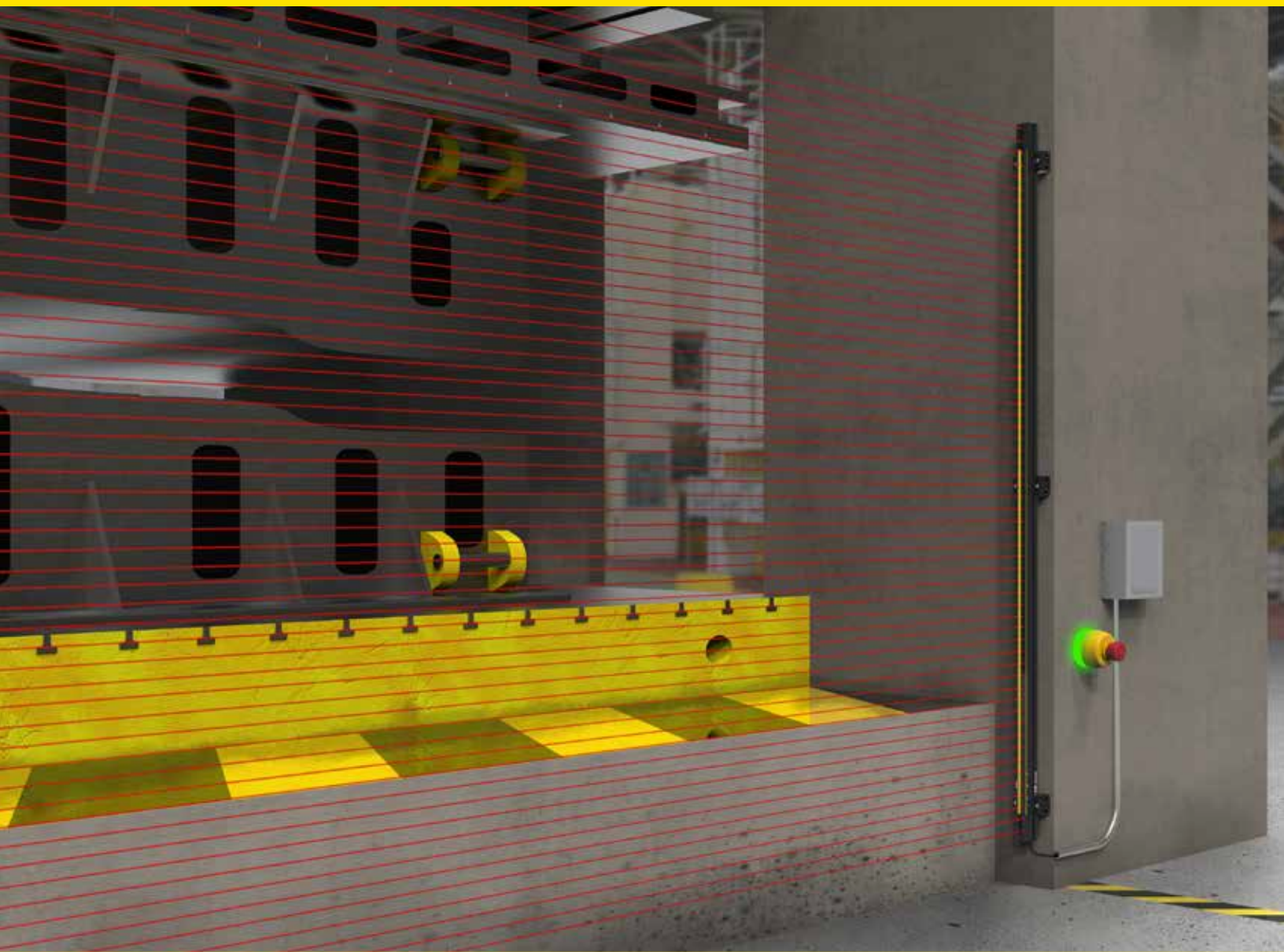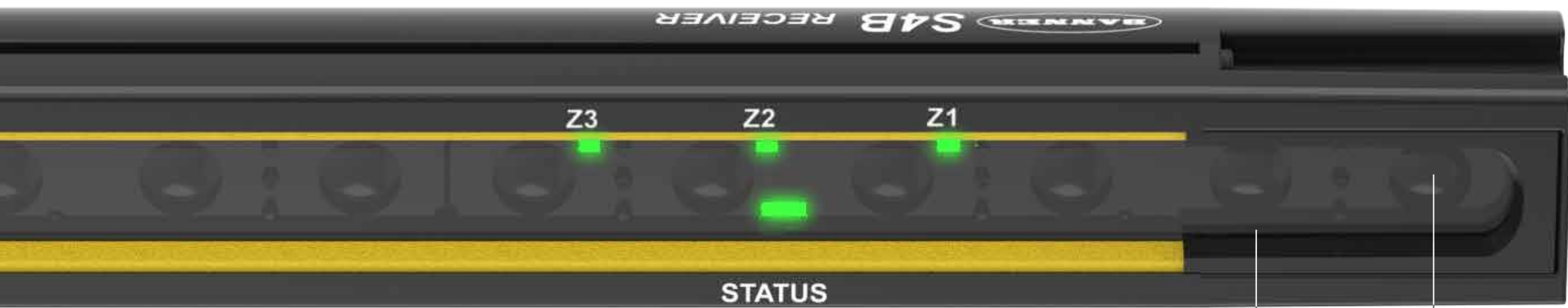# S4B Series

S4B Heavy-Duty Type 4 Safety Light Curtain

- Install quickly and easily with LED alignment indicators and brackets
- Prevent downtime using weak beam strength LED indication and output
- Eliminate costly repairs by way of the 5-pin M12 removable connection

BANNER®

more sensors, more solutions

Z3   **Z2**   **Z1**

STATUS

Window is recessed 4 mm for added protection

End-to-end sensing design (no blind zone)

Simple Installation

The S4B is designed and optimized for easy and intuitive installation, operation, and troubleshooting. Zone LEDs aid troubleshooting and help reduce downtime.

Alignment Zone Indicators

Misaligned
Red indicates a loss of signal due to a blocked beam or significant misalignment

Weak
Yellow indicates a weak signal due to a slight misalignment

Aligned
Green indicates a strong signal, proper alignment, and clear of obstruction

Rotating and locking brackets

Intuitive Setup and Swap-out
Select and save scan code setting without a PC for easy setup and swap-out

Prevent Downtime

Yellow indicates a weak signal due to a dirty lens.

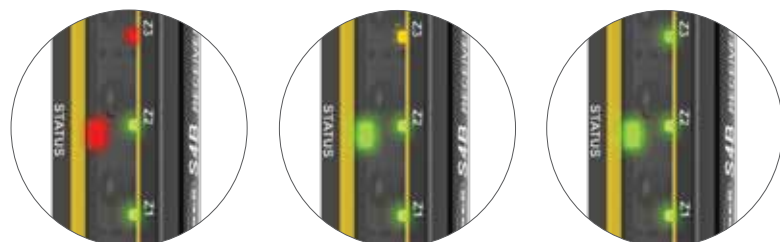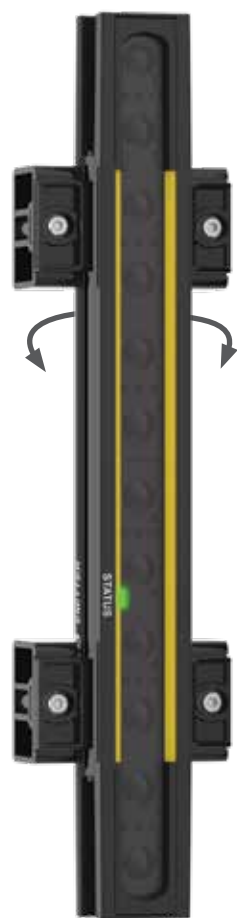A weak beam strength output is sent via pin 5 to a PLC or HMI alerting operators to preventive maintenance needs.

Eliminate Costly Repairs
Removable cordset with 5-pin M12 QD allows for cost effective replacement of only the damaged component
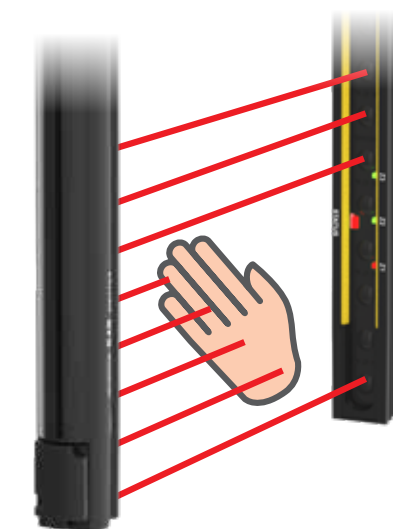
Reliable Hand Detection
The S4B features a 30-millimeter resolution for reliable hand detection

S4B Series Safety Light Curtains

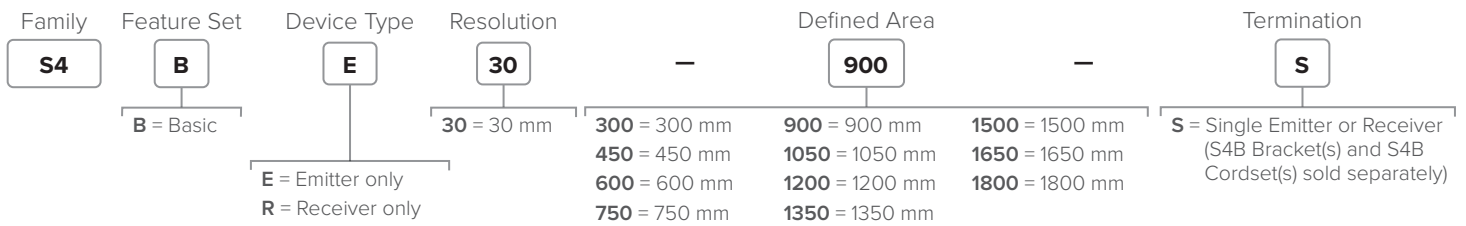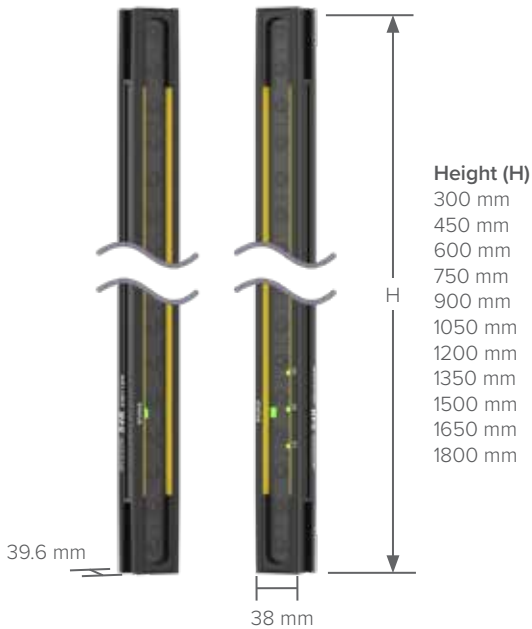| Family	Feature Set	Device Type	Resolution		Defined Area			Termination
S4	**B**	**E**	**30**	—	**900**		—	**S**

B = Basic

E = Emitter only
R = Receiver only

30 = 30 mm

300 = 300 mm	**900** = 900 mm	**1500** = 1500 mm
450 = 450 mm	**1050** = 1050 mm	**1650** = 1650 mm
600 = 600 mm	**1200** = 1200 mm	**1800** = 1800 mm
750 = 750 mm	**1350** = 1350 mm	

S = Single Emitter or Receiver (S4B Bracket(s) and S4B Cordset(s) sold separately)

Note: S4B brackets and S4B cordset are required for both emitter and receiver. Sold seprately (see below).

Specifications

Height (H)
300 mm
450 mm
600 mm
750 mm
900 mm
1050 mm
1200 mm
1350 mm
1500 mm
1650 mm
1800 mm

H

39.6 mm

38 mm

Supply Voltage	24 V DC ±15%
Resolution	30 mm
Output	Two 500 mA current sourcing (PNP) solid-state outputs (OSSD)
Operating Range	0.1 to 12 m
Selectable Scan Codes	Two user-selectable scan codes to avoid crosstalk among S4B pairs in close proximity
Construction	Robust aluminum housing with recessed window and die-cast end caps
Operating Conditions	–20 to +55 °C 95% maximum relative humidity (non-condensing)
Short Circuit Protection	All inputs and outputs are protected from short circuits to +24 V DC or DC common
Electrical Safety	Class III (per IEC 61140)
Safety Rating	Type 4 per IEC 61496-1, -2 Category 4 PL e per EN ISO13849-1 SIL3 per IEC 61508
Environmental Rating	IP65
Certifications	CE c UL us LISTED

Accessories

S4B Brackets
(required)

S4BA-MBK-16
Side mount brackets with 15° of rotation (includes two brackets). Maximum of 900 mm of length between brackets.

S4B Cordset
(required)

DES4E-51D
S4B removable 5-pin M12 QD pigtail (includes one)

Cordsets
(optional)

5-Pin Male M12 to Dual 5-Pin Female M12 Splitter

CSB-M1251M1251B
0.3 m (1') trunk/2 x 0.3 m (1') branches

5-Pin M12 Double-Ended

MQDEC-5xxSS
0.3 m (1') to 15 m (50') options available

5-Pin M12 with Flying Leads

MQDC1-5xx
0.5 m (1.5') to 31 m (101.7') options available

Safety Controllers

Safety controllers ensure safe stop and start functions on equipment. Visit our website for more information.

XS26

SC26

SC10