# S4B Safety Light Curtains



### Simplify Installation and Maximize Uptime

- Optimized auto cascade saves installation and setup time
- Specially designed cordsets simplify installation and maintenance
- 14- and 30-millimeter resolution options offer safety protection for different applications
- Zone indication and weak beam strength indicators reduce commissioning time and help identify maintenance needs
- Muting accessories refine system design and installation
- Endcap mounting and center mount brackets enable greater installation flexibility



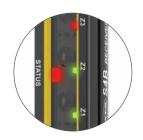
# Heavy-Duty Type 4 Light Curtains

## Simple installation

The S4B gives you more flexibility when deciding how to mount light curtains on your machine. Choose from either center-mount brackets or end cap brackets, both offering up to 15 degrees of freedom to align the emitter and receiver. Once the light curtains are mounted, alignment is further simplified with the onboard alignment zone Indicators as shown below.



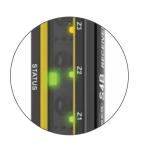
# Alignment Zone Indicators



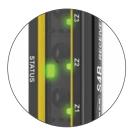
Misaligned

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







#### Intuitive Setup and Swap-out

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





#### **Reliable Finger Detection**

The S4B is available with 14-millimeter resolution for reliable finger detection



#### **Reliable Hand Detection**

The S4B is available with 30-millimeter resolution for reliable hand detection



# Cascading and Muting Options

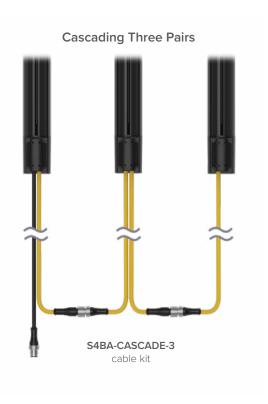
# Save Installation and Setup Time with Auto Cascading

Auto cascading in the S4B speeds setup and installation, automatically recognizing the next light curtain as it is connected. The minimal response time impact when cascaded allows the S4B to be installed closer to the equipment being guarded, making more efficient use of valuable floor space.

# Simplify Installation and Maintenance with Specially **Designed Cordsets**

Cordsets determine if the light curtain is used as a standalone pair or as part of a cascade. Specific connection genders and color-coded cordsets simplify and error-proof installation, using yellow for connecting multiple light curtain sticks while black runs back to the controller. Up to four pairs can be connected, including pairs of different resolutions or lengths.







### Refine System Design and Installation with Muting Accessories

Muting allows objects to pass through operational light curtains by temporarily suspending their safety function, then resuming after the object has passed through the light curtain's beams. Mute arms protect sensors from damage and misalignment. Flexible mounting options for photoelectric sensors accommodate a wide range of object sizes passing through. The muting block consolidates wiring by combining the S4B light curtains and non-safety sensors into one block.

#### Box or Pallet Muting

Mute Arm Kit	Enter/Exit Direction	Width & Shape	Position on Conveyor
L-Configuration	One-way (exit)	Varying	Varying
X- Configuration	Bi-Directional	Consistent	Consistent
T-Configuration	Bi-Directional	Varying	Varying

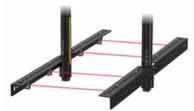
#### L-Configuration



S4BA-ML-LPQ20

Includes: 2 mute arms, 2 Q20PLPQ5 sensors, and 2 retroreflectors

#### **T-Configuration**



S4BA-MT-LPQ20

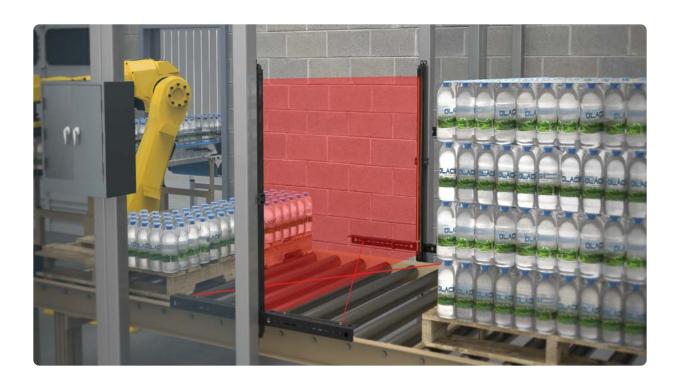
Includes: 2 mute arms, 4 Q20PLPQ5 sensors, and 4 retroreflectors

#### X-Configuration



#### S4BA-MX-LPQ20

Includes: 2 mute arms, 2 Q20PLPQ5 sensors, and 2 retroreflectors





# S4B Safety Light Curtain - Build Your Bundle

Step 1A and 1B: Select your emitter and receiver \_\_\_\_\_

Length	14 mm Emitter	14 mm Receiver	30 mm Emitter	30 mm Receiver
300 mm	S4BE14-300-S	S4BR14-300-S	S4BE30-300-S	S4BR30-300-S
450 mm	S4BE14-450-S	S4BR14-450-S	S4BE30-450-S	S4BR30-450-S
600 mm	S4BE14-600-S	S4BR14-600-S	S4BE30-600-S	S4BR30-600-S
750 mm	S4BE14-750-S	S4BR14-750-S	S4BE30-750-S	S4BR30-750-S
900 mm	S4BE14-900-S	S4BR14-900-S	S4BE30-900-S	S4BR30-900-S
1050 mm	S4BE14-1050-S	S4BR14-1050-S	S4BE30-1050-S	S4BR30-1050-S
1200 mm	S4BE14-1200-S	S4BR14-1200-S	S4BE30-1200-S	S4BR30-1200-S
1350 mm	_	_	S4BE30-1350-S	S4BR30-1350-S
1500 mm	-	-	S4BE30-1500-S	S4BR30-1500-S
1650 mm	_	_	S4BE30-1650-S	S4BR30-1650-S
1800 mm	-	-	S4BE30-1800-S	S4BR30-1800-S

Note: One emitter and one receiver of the same length and resolution is required per system.

### Step 2: Select your brackets \_\_\_\_\_

Description	Models
Side mount brackets with 15° of rotation (includes two brackets). Maximum of 900 mm of length between brackets.	S4BA-MBK-16
End cap mounting bracket with 15° rotation (includes two brackets and adapters). For lengths 1050 mm and longer.	S4BA-MBK-11

Note: Minimum of two per light curtain.

#### Step 3A or 3B: Select your S4B connection cables \_\_\_\_\_

3A: Standalone Pair	Models
5-Pin male cable standalone	DES4-M51-D
8-Pin male cable standalone for EDM	DES4-M81-D

Note: One required for each emitter and receiver.

3B: Cascade	Models
Cable kit for 2 S4B pairs Includes: 2-host cordsets, 5-pin to safety side, and 2-terminal cordsets	S4BA-CASCADE-2
Cable kit for 3 S4B pairs Includes: 2-host cordsets, 5-pin to safety side, 2-guest cordsets, and 2-terminal cordsets	S4BA-CASCADE-3
Cable kit for 4 S4B pairs Includes: 2-host cordsets, 5-pin to safety side, 4-guest cordsets, and 2-terminal cordsets	S4BA-CASCADE-4

Step 4: Select your extension cables (optional)

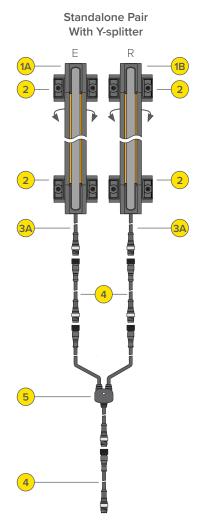
Length	5-Pin M12 Double-Ended (Yellow)	5-Pin M12 Double-Ended	5-Pin M12 with Flying Leads
0.3 m	DEE2R-51D	MQDEC-501SS	_
1.0 m	DEE2R-53D	MQDEC-503SS	_
5.0 m	DEE2R-515D	-	MQDC1-515
7.6 m	DEE2R-525D	MQDEC-525SS	_
9 m	_	-	MQDC1-530
18 m	_	_	MQDC1-560

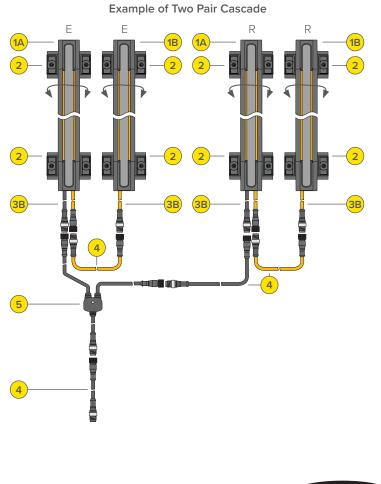
Note: Sold individually.

Step 5: Add your y-splitter (optional)

Description	Models
5-Pin male M12 to dual 5-pin female M12 splitter	CSB-M1251M1251B

Note: Using a splitter helps reduce wiring (see graphic below).







#### S4B Series Safety Light Curtains



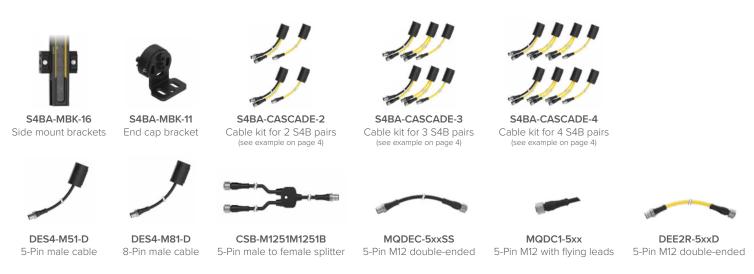
<sup>\*</sup>Only available in 30 mm resolution

Note: S4B brackets and S4B cordset are required for both emitter and receiver. Sold separately (see back page).

#### Specifications \_\_\_\_\_



#### Accessories.





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