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SF4B-F95(V2) | Light Curtain Type 4 SF4B Ver.2

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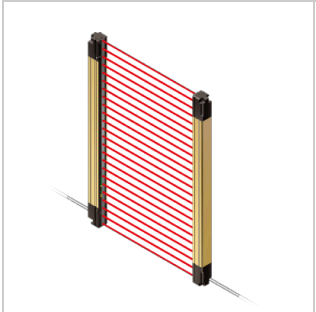
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Dimensions

Product Name	Light Curtain Type 4
Product Details	Min. sensing object dia. 14 mm dia. 0.551 in type (10 mm 0.394 in beam pitch)
Product Number	SF4B-F95(V2)
Part Number	SF4B-F95(V2)
Series	Light Curtain Type 4 SF4B Ver.2

Spec Detail	
As of October 08, 2013	
Item	Specifications
Product Name	Light Curtain Type 4
Product Number	SF4B-F95(V2)
Part Number	SF4B-F95(V2)
Features	New version with improved environmental resistance performance
No. of beam channels	95
Protective height	950 mm 37.402 in
Current consumption	Emitter: 115 mA or less Receiver: 190 mA or less
Weight(Total of emitter and receiver)	1,870 g approx.
Applicable standards:International standard	IEC 61496-1/2 (Type 4), ISO 13849-1 (Category 4, PL _e), IEC 61508-1 to 7 (SIL3) (Note) PL _e SIL3 compliant from production in August 2009.
Applicable standards:Japan	JIS B 9704-1/2 (Type 4), JIS B 9705-1 (Category 4), JIS C 0508-1 to 7 (SIL3) (Note) PL _e SIL3 compliant from production in August 2009.
Applicable standards:Europe (EU)	EN 61496-1 (Type 4), EN ISO 13849-1 (Category 4, PL _e), EN 61508-1 to 7 (SIL3), EN 55011, EN 50178, EN 61000-6-2 (Note) PL _e SIL3 compliant from production in August 2009.
Applicable standards:North America	ANSI/UL 61496-1/2 (Type 4), ANSI/UL 508, UL 1998 (Class 2), CAN/CSA 61496-1/2 (Type 4), CAN/CSA C22.2 No.14, OSHA 1910.212, OSHA 1910.217(C), ANSI B11.1 to B11.19, ANSI/RIA 15.06 (Note) PL _e SIL3 compliant from production in August 2009.
Applicable standards:South Korea (S-Mark)	S1-G-35-2005, S2-W-11-2003 (Note) PL _e SIL3 compliant from production in August 2009.
Applicable standards:China (GB)	GB 4584 (Note) PL _e SIL3 compliant from production in August 2009.
Operating range	0.3 to 7 m 0.984 to 22.966 ft (Note) The operating range is the possible setting distance between the emitter and the receiver.
Mn. sensing object	dia. 14 mm dia. 0.551 in opaque object (Note) When the floating blanking function is used, the size of the min. sensing object is changed.
Effective aperture angle	plus or minus 2.5degrees or less [for an operating range exceeding 3 m 9.843 ft (conforming to IEC 61496-2 / UL 61496-2)]
Supply voltage	24 VDC plus or minus 10 % Ripple P-P 10 % or less
Control outputs (OSSD 1, OSSD 2)	PNP open-collector transistor / NPN open-collector transistor (switching method) - When selecting PNP output: Max. source current 200 mA, When selecting NPN output: Max. sink current 200 mA - Applied voltage: same as supply voltage (When selecting PNP output: between the control output and +V, When selecting NPN output: between the control output and 0 V) - Residual voltage: 2.5V or less (When selecting PNP output: source current 200 mA, when selecting NPN output: sink current 200 mA) (when using 20 m 65.617 ft length cable)
Control outputs (OSSD 1, OSSD 2):Operation mode	ON when all beam channels are received, OFF when one or more beam channels are interrupted (OFF also in case of any malfunction in the light curtain or the synchronization signal) (Note) The outputs are not "OFF" when muting function is active even if the beam channel is interrupted. (Note) In case the blanking function is valid, the operation mode is changed.

Control outputs(OSSD1, OSSD2);Protection circuit	Incorporated
Response time	OFF response: 14 ms or less, ON response: 80 to 90 ms
Auxiliary output (Non-safety output)	PNP open-collector transistor / NPN open-collector transistor (switching method) - When selecting PNP output: Max. source current 60 mA, When selecting NPN output: Max. sink current 60 mA - Applied voltage: same as supply voltage (When selecting PNP output: between the auxiliary output and +V, When selecting NPN output: between the auxiliary output and 0 V) - Residual voltage: 2.5V or less (When selecting PNP output: source current 60 mA, when selecting NPN output: sink current 60 mA) (when using 20 m 65.617 ft length cable)
Auxiliary output (Non-safety output);Operation mode	OFF when control outputs are ON, ON when control outputs are OFF (Factory setting; operating mode can be changed using the SFB-HC handy-controller).
Auxiliary output (Non-safety output);Protection circuit	Incorporated
Interference prevention function	Incorporated (Note) Please use 12-core cable.
Emission halt function	Incorporated
Interlock function	Incorporated [Manual reset / Auto reset (Note)] (Note) The manual reset and auto reset are possible to be switched depending on the wiring status.
External device monitoring function	Incorporated
Override function	Incorporated (Note) Please use 12-core cable.
Muting function	Incorporated (Note) Please use 12-core cable.
Optional functions	Fixed blanking, floating blanking, auxiliary output switching, interlock setting changing, external relay monitor setting changing, muting setting changing, protecting, light emitting amount control (Note) In case of using optional function, the handy-controller (SFB-HC) (optional) is required. However, a handy-controller cannot be used with the SF4B-x-01 and the SF-C14EX-01.
Degree of protection	IP67 / IP65 (IEC)
Ambient temperature	-10 to +55 degrees +14 to +131 degrees Fahrenheit (No dew condensation or icing allowed), Storage: -25 to +70 degrees -13 to +158 degrees Fahrenheit
Ambient humidity	30 to 85 % RH, Storage: 30 to 95 % RH
Ambient illuminance	Incandescent light: 3,500 lx or less at the light-receiving face
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	20 MOhm , or more, with 500 VDC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 55 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each
Shock resistance	300 m/s2 acceleration (30 G approx.) in X, Y and Z directions for three times each
Emitting element	Infrared LED (Peak emission wavelength: 870 nm 0.034 mil)
Material	Enclosure: Aluminium Upper / lower case: Aluminium Sensing surface: Polycarbonate / Polyester resin Cap: PBT
Connecting method	Connector
Cable length	Total length up to 50 m 164.042 ft is possible for both emitter and receiver, with optional mating cables (Note) The cable can be extended within 30 m 98.425 ft (for emitter / receiver) when two light curtains are connected in series, within 20 m 65.617 ft when three light curtains are connected in series. Furthermore, when the muting lamp is used, the cable can be extended within 40 m 131.234 ft (for emitter / receiver).
Accessories	MS-SFB-2 (Intermediate supporting bracket): 1 set SF4B-TR14 (Test rod): 1 No

[Dimensions](#)

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Accessories (Option)

					
Product name	-	Product name	-	Product name	-
Product Number	FC-SFBH-48	Product Number	MC-SFBH-48	Product Number	MC-SFBH-48-T
Part Number	FC-SFBH-48	Part Number	MC-SFBH-48	Part Number	MC-SFBH-48-T
Series	Protective cover	Series	Protection bar set	Series	Protection bar set

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