Panasonic

SF2C-H20-P | Ultra-slim Light Curtain [Type2 PLc SIL1] SF2C

	Product Number	SF2C-H20-P		
	Part Number	SF2C-H20-P		
	Product	Ultra-slim Light Curtain [Type 2 PLc SIL1]		
	Details	Hand protection type Min. sensing object ø25 mm ø0.984 in (20 mm 0.787 in beam pitch)		
※Photo may vary from actual product.	Product name	Ultra-slim Light Curtain [Type2 PLc SIL1] SF2C		
RoHS compliant	Features	Introducing Type 2 Ultra-slim Light Curtains! Featuring easy installation and reduced wiring		

Specifications and design of the products are subject to change without notice for the product improvement.

As of October 09, 2018

Spec Detail

Item Specifications SF2C-H20-P Product Number Part Number SF2C-H20-P CE marking directive compliance Machinery Directive, EMC Directive, RoHS Directive No. of beam channels 20 400 mm 15.748 in Protective height Current consumption:Large Emitter: 35 mA or less multipurpose indicator lights off Receiver: 35 mA or less Current consumption:Large Emitter: 40 mA or less multipurpose indicator lights up Receiver: 40 mA or less 3.79 × 10-9 PFH_{D} (Note) Probability of dangerous failure per hour. 100 years or more MTTFD (Note) Mean time to dangerous failure. Net weight (Total of emitter and 460 g approx. receiver) IEC 61496-1 / 2 (Type 2), ISO 13849-1 (Category 2, PLc), IEC 61508-1 to Applicable standards:International standard 7 (SIL 1) Applicable standards:Japan JIS B 9704-1 / 2 (Type 2), JIS B 9705-1 (Category 2), JIS C 0508 (SIL 1) EN 61496-1 (Type 2), EN ISO 13849-1 (Category 2, PLc), EN 61508-1 to (Note) Regarding EU Machinery Directive, a Notified Body, TUV SUD, has Applicable standards:Europe (EU) certified with the type examination certificate. ANSI / UL 61496-1 / 2 (Type 2), ANSI / UL 508, CAN / CSA 61496-1 / 2 (Type 2), CAN / CSA C22.2 No.14, ANSI / RIA 15.06 (Note) With regard to the standards in US / Canada, TUV SUD, has Applicable standards:North America certified for cTUVus Mark. Operating range 0.1 to 3 m 0.328 to 9.843 ft Beam pitch 20 mm 0.787 in Min. sensing object ø25 mm ø0.984 in opaque object plus or minus 5°C or less [for an operating range exceeding 3 m 9.843 ft Effective aperture angle (conforming to IEC 61496-2 / ANSI/UL 61496-2)] Power voltage 24 V DC plus or minus 20 % Ripple P-P 10 % or less

SF2C-H20-P | Ultra-slim Light Curtain [Type2 PLc SIL1] SF2C | Automation Controls | Industrial Devices | Panasonic

SF2C-H20-P Ultra-slim Light Curtain [Type2 PLc SIL1] SF2C Automation Controls Industrial Dev							
	Control output(OSSD)	 Maximum source current: 200mA Applied voltage: same as supply voltage (between the control output and +V) Residual voltage: 2.5V or less (source current 200mA, when using 10m length cable) Leakage current: 200micro A or less (power supply OFF condition) Maximum load capacity: 2.2micro F (No load to maximum output current) Load wiring resistance: 3Ω or less 					
	Control output(OSSD):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 safety light curtain or the synchronization signal)					
	Control output(OSSD):Protection circuit	Incorporated					
	Response time	OFF response: 20 ms or less ON response: 80 to 100 ms					
	Lockout output(SSD)	 Maximum sink current: 60mA Applied voltage: same as supply voltage (between the lockout output and +V) Residual voltage: 2.5V or less (source current 60mA, when using 10m length cable) Leakage current: 200micro A or less (power supply OFF condition) Maximum load capacity: 2.2micro F (No load to maximum output current) Load wiring resistance: 3Ω or less 					
	Lockout output(SSD):Operation mode	ON during normal operation, OFF during lockout (Note) If the emitter enters a lockout state, and light from the emitter enters the receiver, lockout information will be transmitted and lockout output (SSD) will turn OFF.					
	Lockout output(SSD):Protection circuit	Incorporated					
	Interference prevention function	Incorporated					
	Test input function	Incorporated					
	Large multi-purpose indicator function	Incorporated					
	Pollution degree	3					
	Operating altitude	2, 000 m 6561.680 ft or less (Note) Do not use or store in an environment pressurized to atmospheric pressure or higher at an altitude of 0 m.					
	Environmental resistance:Degree of protection	IP65, IP67 (IEC)					
	Ambient temperature	-10 to +55 $^\circ\text{C}$ +14 to +131 $^\circ\text{F}$ (No dew condensation or icing allowed), Storage: - 25 to +60 $^\circ\text{C}$ - 13 to +140 $^\circ\text{F}$					
	Ambient humidity	30 to 85 % RH, Storage: 30 to 85 % RH					
	Ambient illuminance	Incandescent light: 5,000 tx or less at the light-receiving face					
	Insulation resistance	$20\ \text{M}\Omega$, or more, with 500 V DC megger between all supply terminals connected together and enclosure					
	Vibration resistance	10 to 55 Hz frequency, 0.75 mm 0.030 in double amplitude in X, Y and Z directions for two hours each					
	Shock resistance	300 m / s^2 acceleration (30 G approx.) in X, Y and Z directions three times each					
	Emitting element	Infrared LED (Peak emission wavelength: 850 nm 0.034 mil)					
	Cable	0.16 mm ² 5-core heat-resistant PVC cable, 3 m 9.842 ft long					
	Cable extension	Extension up to total 50m is possible for 0.3mm ² or more, cable					
	Material	Enclosure: Polycarbonate alloy Sensing surface: Polycarbonate alloy MS-SFC-1 (Standard mounting bracket): Stainless steel (SUS)					
	Accessories	MS-SFC-1 (Standard mounting bracket): 1 set SF4C-TR25 (Test rod): 1 No.					

Accessories

No imag

o image

SF2C-H20-P | Ultra-slim Light Curtain [Type2 PLc SIL1] SF2C | Automation Controls | Industrial Devices | Panasonic

					·
Product Number	MS-SFC-1	Product Number	MS-SFC-2	Product Number	MS-SFC-3
Part Number	MS-SFC-1	Part Number	MS-SFC-2	Part Number	MS-SFC-3
Product name	Ultra-slim Safety Light Curtain Type 4 PLe SIL3 SF4C	Product name	Mounting bracket	Product name	Mounting bracket
No image		No image		TTY A	
Product Number	MS-SFC-4	Product Number	MS-SFCH-20	Product Number	SF-C13
Part Number	MS-SFC-4	Part Number	MS-SFCH-20	Part Number	SF-C13
Product name	Mounting bracket	Product name	Metal protection case	Product	Exclusive Control Unit for Safety Light Curtain
				Details	Slim type control unit
				Product name	Exclusive Control Unit for Safety Light Curtain SF- C10
No image					
Product Number	SF4C-TR25				
Part Number	SF4C-TR25				

Product Name Ultra-slim Safety Light Curtain Type 4 PLe SIL3 SF4C

© Panasonic Corporation