MULTI CANDELA HORN and/or STROBE

S-C8056 Horn Strobe

S-C7056 Horn Strobe

S-C8057 Strobe

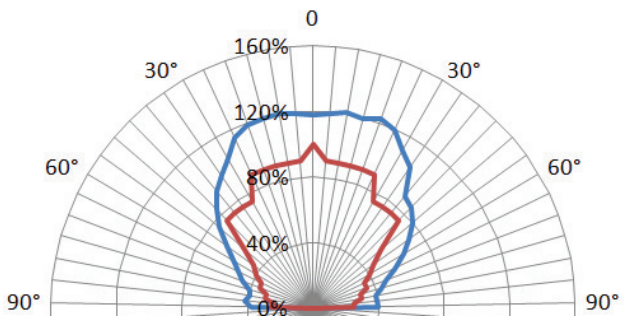
S-C7057 Strobe

DESCRIPTION

The S-C8056 / S-C7056 Horn Strobes and S-C8057 / S-C7057 Strobes are a family of multi-candela visual and audible signal appliances with light sources generated from white LED, listed according to UL 1638 and UL 464 (10th Edition) for indoor use. The LED light source offers superior performance, including low power consumption and long operating life. Six levels of light output are selectable. Figure 1 shows relative light outputs in horizontal and vertical dispersion from strobes mounted on walls/ceilings.

The strobe appliances produce a flash rate of one flash per second over the Regulated Voltage Range. The temporal tone generated by the horn portion is designed as per ANSI and NFPA72 for standard emergency evacuation signaling requirement.

The appliance has the feature that can synchronize multiple horn and/or strobes in a complete fire alarm system.



---- UL Limit (percent)
---- S-C8056/S-C7056/S-C8057/S-C7057 intensity (percent)

Figure 1. Horizontal and Vertical Light Outputs

ATTENTION

The product must be used within its published specifications and properly installed, operated, and maintained, in accordance with these instructions. Users are solely responsible for determining whether a product is suitable for the user's purposes or achieves the intended results. Read the instructions carefully before using this product. Failure to comply with any of the instructions, cautions, and warnings could result in improper application, installation and/or operation of these products in an emergency situation. This could result in property damage and serious personal injury or death.

NOTE

Do not paint this device. Any material extrapolated from this document or from SHIELD's instructions or other documents describing the product for use in promotional or advertising claims, or for any other use, including description of the product's application, operation, installation, and testing is the sole responsibility of the user. SHIELD will not assume any liability for such use. In no case will SHIELD's liability exceed the purchase price paid for a product.

SIGNALING UL LISTED

SPECIFICATION

Operating Voltage	16 to 33 Vdc/fwr						
RMS Operating Current @16 Vdc (mA)		130 cd	105 cd	85 cd	50 cd	35 cd	20 cd
	S-C8056 S-C7056	164	126	85	55	47	30
	S-C8057 S-C7057	156	119	80	49	43	28
RMS Operating Current @16V fwr (mA)		130 cd	105 cd	85 cd	50 cd	35 cd	20 cd
	S-C8056 S-C7056	187	158	102	66	58	38
	S-C8057 S-C7057	154	150	97	61	53	35
Sound Level (dBA)	Voltage	16Vdc/fwr		24Vdc/fwr		33Vdc/fwr	
	UL Rever-berant	77		81		85	
	ULC Anechoic	85		88		91	
Directional Characteristics	Horizontal Axis	Angle		OSPL (dBA)			
		0° (ref)		0 (ref)			
		± 44°		-3			
		± 54°		-6			
		± 90°		-10.5			
	Vertical Axis	Angle		OSPL (dBA)			
		0° (ref)		0° (ref)			
		± 52°		-3			
		± 55°		-6			
		± 90°		-12			
Effective Light (cd)	20, 35, 50, 85, 105, 130 (See Figure 3 for candela selection)						
Operating Temperature	0° C to 49° C						
Operating Humidity	0 to 93% RH						
Horn Pattern	Temporal 3						
Strobe Pattern	1 flash per second						
Wire Size	12 to 18 AWG						
Location	Indoor wall/ceiling						

CAUTION

- To avoid electrocution that could result in personal injury or death, remove all sources of power and allow 10 minutes to discharge stored energy prior to installing or removing equipment. Install this device in accordance with all applicable codes and the Local Authorities Having Jurisdiction.
- Electrical supervision requires breaking the wire run at each terminal. Do not loop the signaling circuit field wires around the terminals.
- Check the manufacturer's installation instructions for other equipment used in the system for any guidelines or restrictions on wiring and/or locating NACs and notification appliances. Some system communication circuits and/or audio circuits, for example, may require special precautions to assure electrical noise immunity (e.g., audio crosstalk).
- Check that the installed product will have sufficient clearance and wiring room prior to installing bases. Do not over tighten mounting screws as this can deform the base and may affect operation.

DESCRIPTION

1. Mount the S-C8210/S-C8211 base onto a 4x4 electrical box, see Figure 2.

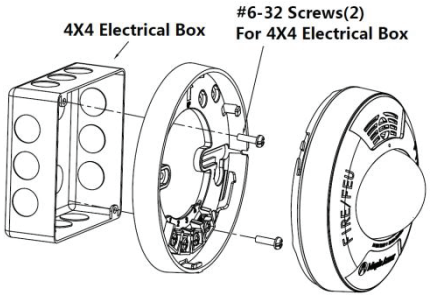
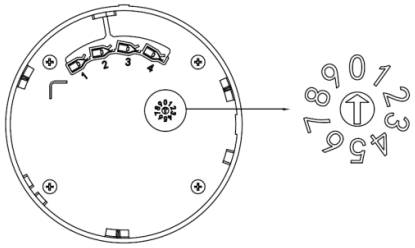


Figure 2. Base Installation

2. Set the strobe signal level to the desired setting. See Figure 3.



Switch	1	2	3	4	5	6	7	8	9	10
Candela	20	35	50	85	105	130	not used	not used	not used	not used

Figure 3. Candela Selector

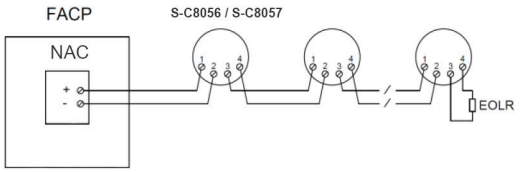


Figure 4. Wiring Diagram with FACP

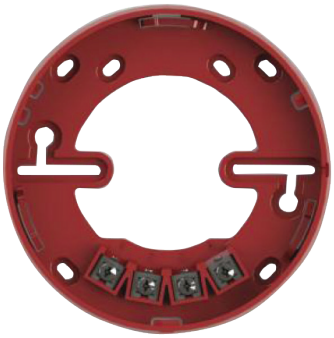
3. Combine the (horn) strobe with base – Align the (horn) strobe onto the base then and twist it in clockwise.
4. Test for proper operation. Initiate this unit from the connected FACP and observe for proper operation.

MAINTENANCE

Scheduled inspection and operational test should be carried as per requirement set out by Local Authority Having Jurisdiction.

Return the device for reparation if it fails to alarm during testing. Do not disassemble the detector without permission.

Base



S-C8210

S-C8211

The S-C8210 and S-C8211 bases are designed for use with the notification appliances S-C8055, S-C8056, S-C8057 & S-C7055, S-C7056, S-C7057 respectively.

SPECIFICATION

Diameter	5.51 inch (140 mm)
Height	0.71 inch (18 mm)
Weight	2.50 oz (70.8 g)
Wiring Gauge	12 to 18 AWG

Caution: Do not over tighten the terminal screws to avoid deforming the base which may affect the detector efficiency.

SHIELD FIRE, SAFETY & SECURITY LTD
Unit 3, Endeavour Drive, Basildon-Essex, SS14 3WF, United Kingdom
Tel: +44 1708 377731 Fax: +44 1708 347637, E-mail: Shielduk@shieldglobal.com
www.shieldglobal.com