

Compact Modular Fuse Holders With the Industry's Best Ratings

Products for PV, IEC and UL Applications



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Protection made simple

Cooper Bussmann CH Series finger-safe modular fuse holders offer a set of advantages you can't find anywhere else.



Best Ratings

With a wide wire range and industry leading ratings - up to 32A, 1000V, 200kA SCCR – the new CH Series provides worldwide acceptance and easy specification – including the latest PV fuse holder standard (UL 4248-18)

COOP

ER Bussmann



Smallest Footprint

The CH Series conserves valuable panel space. Up to 10 percent smaller than the competition.



Ease of Use

Easy to identify and specify, product color coding shows PV, IEC and UL holders at a glance. Optional factory-installed neutral pole and open fuse indication speeds troubleshooting.



Accessories Provide Greater Flexibility

Save time and money by reducing wiring and components. Advanced comb-bus bar and PLC communication accessories expand design possibilities while delivering superior performance.



QuikShip Service

In stock for QuikShip Everyday Service - 90% of our orders ship within 24 hours. QuikShip Emergency Service ensures you're covered 24/7, 365 with "Next flight out" courier service.

Modular Fuse Holder Specifications and Selection Guide

Features and Benefits

- High SCCR rated, UL Listed Class CC holder with indicator option for 600Vac/dc and 48Vdc.
- UL Recognized midget and 10 x 38 holders with factory assembled neutral pole option.
- Agency ratings up to 1000Vdc for use with solar PV fuses.
- Available remote PLC indication with the CH-PLC module.
- Rated for use with 75°C or 90°C wire, fine stranded wire, spade terminals and comb-bus bars. Use any higher temperature rated wire with appropriate derating.
- Complete range of UL Listed and high SCCR rated 1-phase and 3-phase finger-safe comb-bus bars and power feed lugs.

Specifications

Agency Information: UL File E14853

Guide IZLT Listed, IZLT2 Recognized

CSA: File 47235, CHPV and CHM - Class 6225-30, CHCC - Class 6225-01

Ratings:

600V/30A (UL) 690V/32A (IEC)

Wire Range:

#18 to #4 (0.8mm² to 21.1mm²)

Torque Ratings:

30 Lb-In (3.4 N•m) maximum

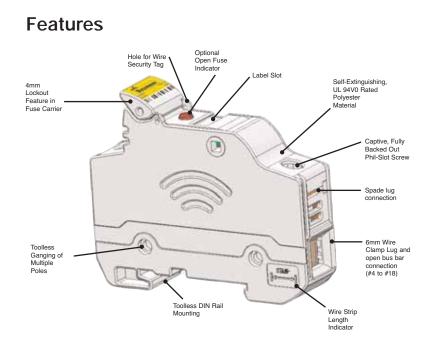
Flammability Ratings:

UL 94V0, self-extinguishing **Storage & Operating Temperature Range:** -20°C to +90°C (indicating) -20°C to +120°C (non-indicating)

	Catalog Number								
Series &	With	Without	Voltage &	Agency	Number	Terminal	SCCR	Cooper Bussmann	
Size	Indicator	Indicator	Current	Markings	of Poles	Rating	Rating	Fuses	
	CHM1DIU	CHM1DU		UR; IEC	1				
	CHM2DIU	CHM2DU		60269-2;	2	Stranded,		FNQ, KLM, FNM, KTK, BAF, FWA, DCM, C10 SERIES, AGU, BAN, FWC	
	CHM3DIU	CHM3DU	UL	CSA; CCC	3				
	CHM4DIU	CHM4DU	600V/30A;	USA, UUU	4				
CHM 10x38	CHM1DNIU	CHM1DNU	IEC 690V/32A	IEC 60269-2	1 pole + 1 neutral				
and Midget	CHM3DNIU	CHM3DNU			3 poles + 1 neutral				
Ū	CHM1DI-48U		UL 48Vdc/30A; IEC 48Vdc/32A	UR; IEC 60269-2; CSA; CCC	1				
		CHM1DNXU	IEC 690V/32A	IEC60269-2	1 neutral	Dual Wire;	n/a	n/a	
	CHPV1IU	CHPV1U		UL; CSA;	1	75°C and			
CHPV	CHPV2IU	CHPV2U	UL & IEC; 1000Vdc/30A	UL4248-18; IEC60269-1; CCC	2	90°C Cu wire	33kA	Solar PV series	
	CHCC1DIU	CHCC1DU			1		200kA rms sym	LP-CC, FNQ-R, KTK-R	
CHCC	CHCC2DIU	CHCC2DU	UL 600V/30A		2				
Class CC	CHCC3DIU	CHCC3DU			3				
		CHCC1DI-48U	UL 48Vdc/30A		1				

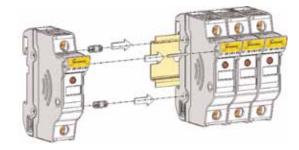


COOPER Bussmann

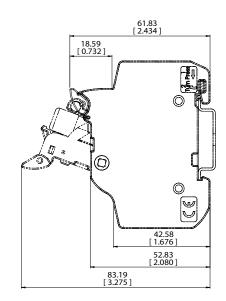


Multi-Pole Ganging

Use multi-pole connection kit part number JV-L to gang multiple poles together. One JV-L kit is sufficient to gang up to 4 poles.



Dimensional Data - mm (in)

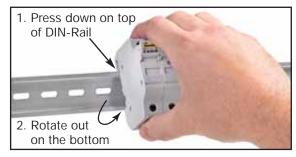


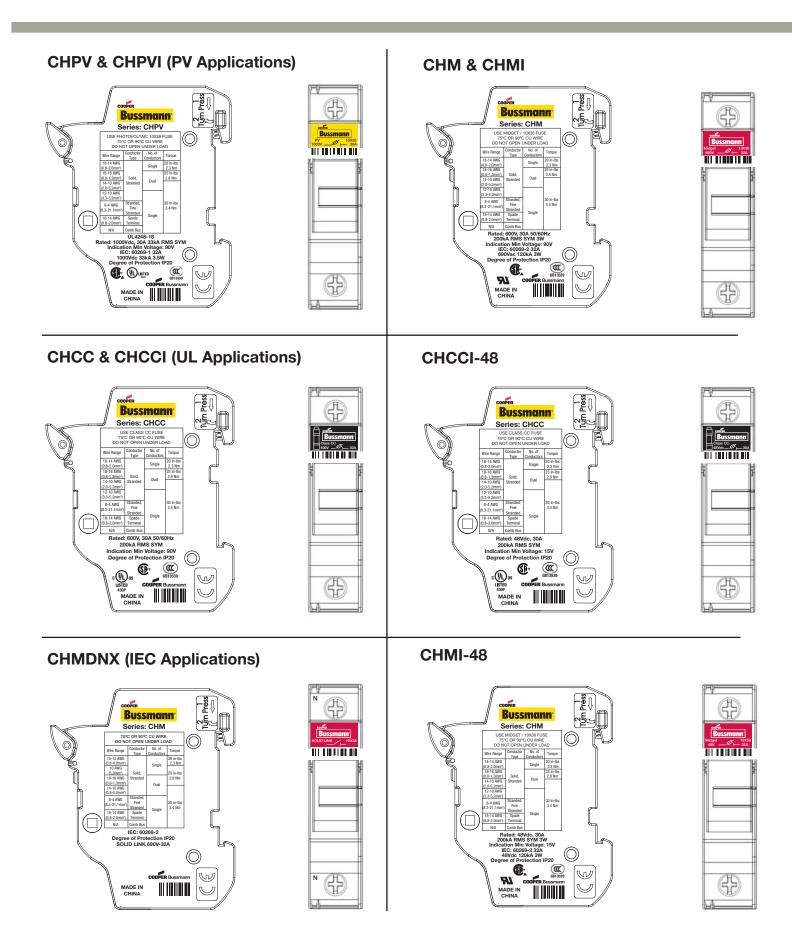
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7.5 [0.295] 70 [2.756]

52.5 [2.067]

Removing Instructions







Make it Simple with Cooper Bussmann resettable three-phase remote fuse monitor that integrates with a Programmable Logic Controller (PLC) or other monitoring and control equipment.



Specifications:

- Power Input: 24Vdc / 5mA
- · Sensing Voltage: 600V/30mA
- · Output Signals: Digital 0Vdc (Low), 24Vdc (High)
 - 0Vdc Low Fuse is good
 - 24Vdc High Fuse has opened

When the fuse opens, the output signal is sent high and will remain high until the unit is reset

- · Rated Impulse Voltage: 8kV
- Local Indication: Two distinct LEDs indicate unit power (green) and open fuse (red). Upon the replacement of the fuse, the actuation of the reset switch will reset the open fuse LED
- Flammability Rating: UL 94V0

Wiring:

 For power, signal and ground connections use 22-24AWG (0.25mm²) 300V rated wire

Emissions and Immunity Testing:

- · Electrostatic Discharge IEC 61000-4-2
- · Electrical Fast Transient/Burst IEC 6100-4-4
- Surge Immunity IEC61000-4-5

Packaging:

- The CH-PLC is packaged individually
- · A single unit monitors up to three phases
- Package includes 0.11" (2.8mm) quick connects for power, signal and ground connections

Minimum Circuit Voltage:

Minimum circuit voltage required across the CH holder is 100Vac for the remote indication device to operate

Installation Technique:

 Mounts on the left side of the fuse holder and mechanically interlocks with the fuse holder switch handle with hardware provided

IP20 Rating: Yes

Environmental Data:

Storage and Operating Temperature: -20°C to 75°C

Agency Information:

- UL 508
- cULus to CSA Standard 22.2 No.14

PLC Programming:

- The CH-PLC signal line is designed to provide a digital input to a PLC I/O card.
- Programmable Logic Control program must be written to properly interpret the input signal to the PLC.
- The PLC program should check for consecutive high signals before taking action on a critical process.

Comb-Bus Bar Specifications and Selection Guide

Features and Benefits

- Easily distribute power in single-phase or three-phase configurations
- Flexible cut-to-length solutions without compromising on the product's finger-safe features
- 100kA SCCR (Short Circuit Current Rating) when protected by a 200A Class J fuse
- Single-phase bus bars rated to 1000Vdc and 100A in end-fed configuration (200A for center-fed configuration)
- Three-phase bus bars rated to 600Vac/dc and 100A in end-fed configuration (200A for center-fed configuration)
- Power feed terminals for single-phase and three-phase service

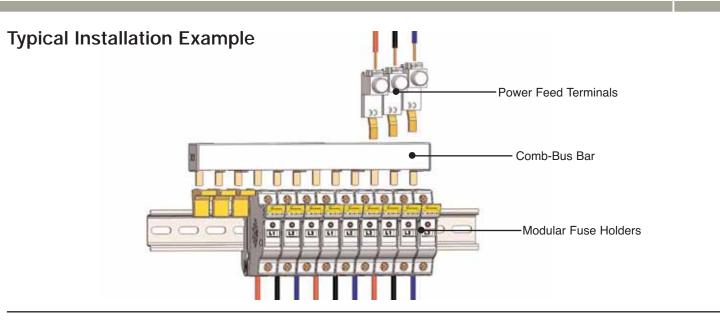
Specifications

Agency Information: UL508, File E195399 Pitch: 17.8mm SCCR: 10kA (default) 100kA (with upstream Class J 200A fuses) Max Current: 100A (power feed from end; 200A (power feed from center) Max Voltage: 600Vac/dc (three phase) 1000Vdc/600Vac (single phase)

Selection Guide

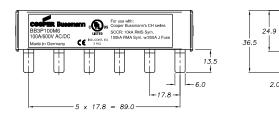
Part Number	Description
BB1P100M3	Single-phase 1000Vdc busbar, 100A, 3 pins, assembled endcap
BB1P100M6	Single-phase 1000Vdc busbar, 100A, 6 pins, assembled endcap
BB1P100M9	Single-phase 1000Vdc busbar, 100A, 9 pins, assembled endcap
BB1P100M12	Single-phase 1000Vdc busbar, 100A, 12 pins, assembled endcap
BB1P100M15	Single-phase 1000Vdc busbar, 100A, 15 pins, assembled endcap
BB1P100M57	Single-phase 1000Vdc cuttable busbar, 100A, 57 pins, without endcap
BB3P100M6	Three-phase 600V busbar, 100A, 6 pins, assembled endcap
BB3P100M9	Three-phase 600V busbar, 100A, 9 pins, assembled endcap
BB3P100M12	Three-phase 600V busbar, 100A, 12 pins, assembled endcap
BB3P100M15	Three-phase 600V busbar, 100A, 15 pins, assembled endcap
BB3P100M57	Three-phase 600V cuttable busbar, 100A, 57 pins, without endcap
ECAP1P	Single-phase busbar endcap
ECAPMP	Three-phase busbar endcap
PWR35MM	35mm ² feeder terminal for three-phase busbar (115A, 1000Vac/dc)
FSCVR	Spare contact safety protection covers
PWR1PLP	Single-phase low-profile feeder terminal (115A, 1000Vac/dc)
PWR50MM	50mm ² direct feed terminal (1000Vac/dc)

Comb-bus Bar Features and Installation Guide



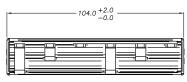
Typical Dimensional Data

Three-phase

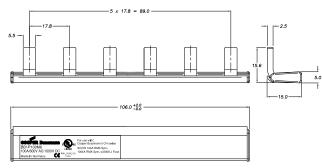


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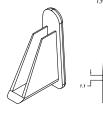
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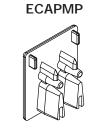


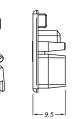
Single-phase





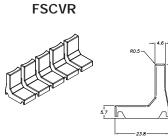


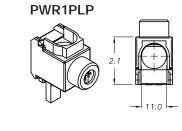




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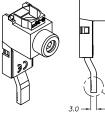
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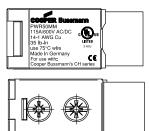


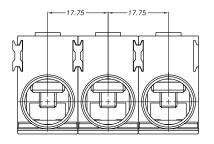
COOPER Bussmann





PWR50MM





CH Series Modular Fuse Holder Specifications





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UL









22x58 IEC

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IndicationIndicationCH081DCH081DICH081DNX-CH081DNSCH081DNSICH081DNSCH081DNICH082DCH083DICH083DCH083DICH083DNSCH083DNSICH084DCH083DNICH084DCH084DICHM1DUCHM1DIUCHM2DUCHM2DIUCHM2DUCHM4DIUCHM4DUCHM4DIUCHM4DUCHM4DIUCHM1DNUCHM4DIUCHM1DNUCHM4DIUCHM1DNUCHM4DIUCHM1DNUCHM4DIUCHM1DNUCHM1DNIUCHM1DNUCHM1DNIUCHM1DNUCHM1DIUCHM1DNUCHM2DIUCHPV1UCHPV1IUCHPV1UCHPV1IUCHPV1UCHPV2UCHC2DUCHC2DIUCHC2DUCHC2DIU	CH08 8x32 CHM 10X38 and Midget	& Current IEC 400V/ac 25A UL 600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC	• • • • • •	*	1-pole 1 Neutral Pole 1-pole + Neutral 2-pole 3-pole 3-pole + Neutral 3-pole + Neutral 4-pole 1-pole 2-pole 3-pole 3-pole	Modules 1 1 2 3 4 1 2	1-16mm ² (18-8 AWG) 1-10mm ² (18-8 AWG)	2.5 N•m (22LB-In) 2.0 N•m (17.5LB-In)
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CH083D CH083DI CH083DNS CH083DNSI CH083DN CH083DNI CH084D CH084DI CH084D CH084DI CH084D CH084DI CH084D CH084DI CHM2DU CHM2DIU CHM3DU CHM3DIU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM1DNU CHM1DNIU CHM3DNU CHM1DNIU CHM1DNU CHM1DIU CHM1DNU CHM1DIU CHM1DNU CHM1DNIU CHM1DNU CHM1DIU CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHPV2U CHPV2IU CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU	CHM 10X38 and Midget	25A UL 600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC		* * *	3-pole 3-pole + Neutral 3-pole + Neutral 4-pole 1-pole 2-pole 3-pole	3 3 4 4 1 2	1-16mm² (18-8 AWG)	2.5 N•m (22LB-In)
CH083DNS CH083DNSI CH083DN CH083DNI CH084D CH084DI CH084D CH084DI CH084D CH084DI CHM1DU CHM1DIU CHM3DU CHM3DIU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM1DNU CHM1DNIU CHM3DNU CHM1DNIU CHM1DNU CHM1DNIU CHM1DNU CHM1DNIU CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHPV2U CHPV2IU CHC2DU CHC2DIU	10X38 and Midget	UL 600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC		* * *	3-pole + Neutral 3-pole + Neutral 4-pole 1-pole 2-pole 3-pole	3 4 4 1 2	1-16mm² (18-8 AWG)	2.5 N•m (22LB-ln)
CH083DN CH084D CH083DNI CH084D CHM1DU CHM2DU CHM1DIU CHM2DU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM4DU CHM4DIU CHM1DNU CHM1DNIU CHM1DNU CHM1DI48U CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHP2U CHPV2IU CHCC1DU CHCC1DIU CHC2DU CHC2DIU	10X38 and Midget	600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC		* * *	3-pole + Neutral 4-pole 1-pole 2-pole 3-pole	4 4 1 2		
CH084D CH084DI CHM1DU CHM1DIU CHM2DU CHM2DIU CHM3DU CHM3DIU CHM4DU CHM4DIU CHM1DNU CHM4DIU CHM3DNU CHM3DNIU CHM3DNU CHM1DNIU CHM1DNU CHM1DABNIU CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHPV2U CHPV2IU CHC2DU CHC2DIU	10X38 and Midget	600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC		* * *	4-pole 1-pole 2-pole 3-pole	4 1 2		
CHM2DU CHM2DIU CHM3DU CHM3DIU CHM4DU CHM4DIU CHM1DNU CHM1DNIU CHM3DNU CHM3DNIU - CHM1DNU CHM1DNXU - CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHC1DU CHC2DIU	10X38 and Midget	600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC	•	* * *	2-pole 3-pole	2		
CHM3DU CHM3DIU CHM4DU CHM4DIU CHM1DNU CHM1DNIU CHM3DNU CHM1DNIU - CHM1DI-48U CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2U CHCC1DU CHCC1DIU CHC2DU CHC2DIU	10X38 and Midget	600V/30A; IEC 690V/32A UL 48Vdc/30A; IEC	• • • • •	*	3-pole			
CHM4DU CHM1DNU CHM1DNU CHM3DNU CHM3DNU CHM1DI-48U CHM1DIXU CHPV1U CHPV1U CHPV2U CHPV2U CHCC1DU CHCC2DU CHCC2DU	10X38 and Midget	IEC 690V/32A UL 48Vdc/30A; IEC	•	*	1 .		1	
CHM1DNU CHM3DNU CHM3DNU CHM1DI-48U CHM1DIXU CHPV1U CHPV1U CHPV2U CHPV2U CHC2DU CHCC1DU CHCC2DU	and Midget	690V/32A UL 48Vdc/30A; IEC	•	*		3		
- CHM1DI-48U CHM1DIXU - CHPV1U CHPV1U CHPV2U CHPV2IU CHC2DU CHCC1DIU CHCC2DU CHCC2DIU		IEC	•		1-pole + Neutral	2		
CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU		IEC		*	3-pole + Neutral	4	1-21mm ² (18-4 AWG)	3.4 N•m (30LB-In)
CHM1DNXU - CHPV1U CHPV1IU CHPV2U CHPV2IU CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU				*	1-pole	1		
CHPV1U CHPV1U CHPV2U CHPV2IU CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU					т-роје			
CHPV2U CHPV2IU CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU		IEC 690V32A	•		1-pole + Neutral	2		
CHCC1DU CHCC1DIU CHCC2DU CHCC2DIU		UL & IEC;	•	†††	1-pole	1		
CHCC2DU CHCC2DIU		1000Vdc/30A	•	††† **	2-pole	2		
	СНСС	UL		**	1-pole 2-pole	2	1-21mm ² (18-4 AWG)	3.4 N•m (30LB-In)
0110000010	Class CC	600V/30A		**	3-pole	3		
CHCC1DI-48U –		UL 48Vdc/30A		**	1-pole	1		
CH141D CH141DI			•		1-pole	1.5		
CH141DMS - CH141DNX -		UL 600Vac/dc			1-pole + Microswitch 1 Neutral Pole	1.5 1.5		
CH141DN CH141DNI		40A	•		1-pole + Neutral	3		
CH142D CH142DI	CH14	(5 Watt)	•	†	2-pole	3	2.5-16mm ² (14-6 AWG)	3.0 N•m (26LB-In)
CH143D CH143DI	14x51	IEC CODV/co	•	†	3-pole	4.5 4.5		
CH143DMS - CH143DN CH143DNI		690Vac, 50A			3-pole + Microswitch 3-pole + Neutral	4.5 6		
CH143DNMS -			•		3-pole + Neutral + Microswitch	6		
CH144D CH144DI			•		4-pole	6		
CH221D Not			•	†	1-pole	2		
CH221DMS Available CH221DNX with		UL			1-pole + Microswitch 1 Neutral Pole	2 2		
CH221DNX local		600Vac/dc,			1-pole + Neutral			
CH222D neon	CH22	100A	•	†	2-pole	4	2.5-50mm ² (14-1 AWG)	4.0 N•m (35LB-In)
CH223D indication	22x58	(9.5 Watt)	•	†	3-pole	6		
CH223DMS (remote CH223DN microswitch		IEC COOV(co	•		3-pole + Microswitch 3-pole + Neutral	6		
CH223DNMS only)		690Vac, 125A		†	3-pole + Neutral + Microswitch	8		
CH224D		12071	•		4-pole	8		
Class JNeoneasyID™ IndicationIndication								
CH30J1 CH30J1I	CH30J	UL/CSA			1-pole	_	1-50mm ² (18-1 AWG)	1-8 AWG 4.0 N•m (35LB-In)
CH30J2 CH30J2I	30A	600Vac		††	2-pole	-		10-18 AWG 2.7N•m (24LB-IN)
CH30J3 CH30J3I	Class J			††	3-pole	_		<u> </u>
CH60J1 CH60J1I	CH60J	UL/CSA		††	1-pole	-	1-50mm ² (18-1 AWG)	1-8 AWG 4.0 N•m (35LB-In)
CH60J2 CH60J2I CH60J3 CH60J3I	60A Class J	600Vac		†† ††	2-pole 3-pole			10-18 AWG 2.7N•m (24LB-In
† UL Recognized (cURus)	t† UL Listed (I Pocogniza		rd 4248-18, CSA * UL Re	I		1

For further details see Data Sheets 2053 (CH08, CHM, CHCC, CH14 AND CH22) and 2144 (CHJ Class J) *90V miminum required for illumination ***12V mininum required for illumination

Widest Range of Fuse Holders Available

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CH Series	e ye ye H Inn He He H	In-line Series	
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Class CC and Midget Series		Military Series	Concernent and Concer

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