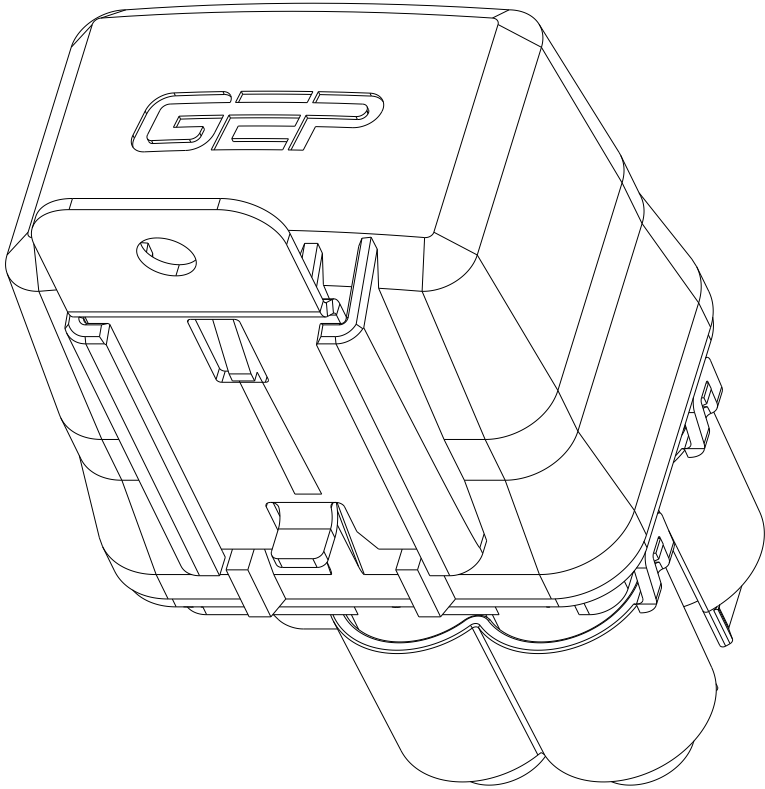


REV	REVISION DETAILS	ECO	DATE	BY	ABY
0	INITIAL RELEASE	NP-003279	2-2-2021	JWK	JML
1	CORRECTED HOUSING AND SEAL PART NUMBER IN EXAMPLE ASSEMBLY BOM	NP-003299	2-8-2021	JWK	JML
2	REMOVED DIODE KEY SHEET 4 - NOT SUPPORTED ON THIS PRODUCT	NP-003322	2-10-2021	JJW	JML
3	UPDATED GEOMETRY OF HOUSING	NP-003953	9-21-2021	JWK	JJW
4	UPDATED TO LATEST DRAWING STANDARDS. UPDATED PART NUMBER AND DESCRIPTION.	NP-006086	11-14-2024	JWK	JML



ISO VIEW
FOR REF ONLY

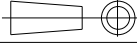
CONFIDENTIAL

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CRITICAL DIMENSIONS ON FEATURES TO BE CHECKED DURING ANY SET-UP ADJUSTMENTS, TOOL CHANGES, OR ANNUAL MAINTENANCE ON TOOLING.

DIMENSIONS OR FEATURES TO BE CHECKED FROM RUN-TO-RUN

TOLERANCES UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION

METRIC TOL

ENGLISH TOL

ANGULAR TOL= ±2°
FRACTION TOL= ±1/64 IN

1 PL DEC. = ±.25
2 PL DEC. = ±.13

2 PL DEC. = ±.01
3 PL DEC. = ±.005

DIMENSIONS INSIDE PARENTHESES OR CONTAINING "REF" ARE FOR REFERENCE ONLY.

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16830 Pheasant Drive
Brookfield, WI 53005

PART NO:

FRH - MAXI AND MINI - SERIES (SALES)

DESCRIPTION:

FRH - MAXI AND MINI - SERIES

CUSTOMER:

STANDARD

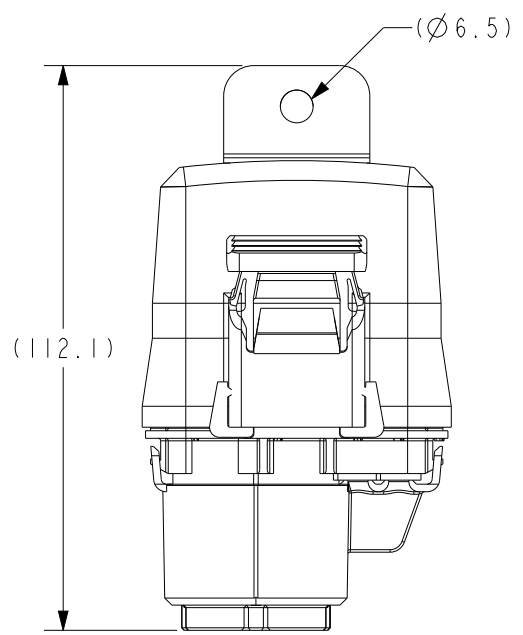
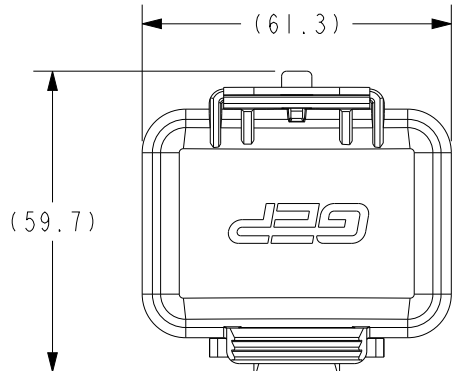
METRIC (MM)

REV
4

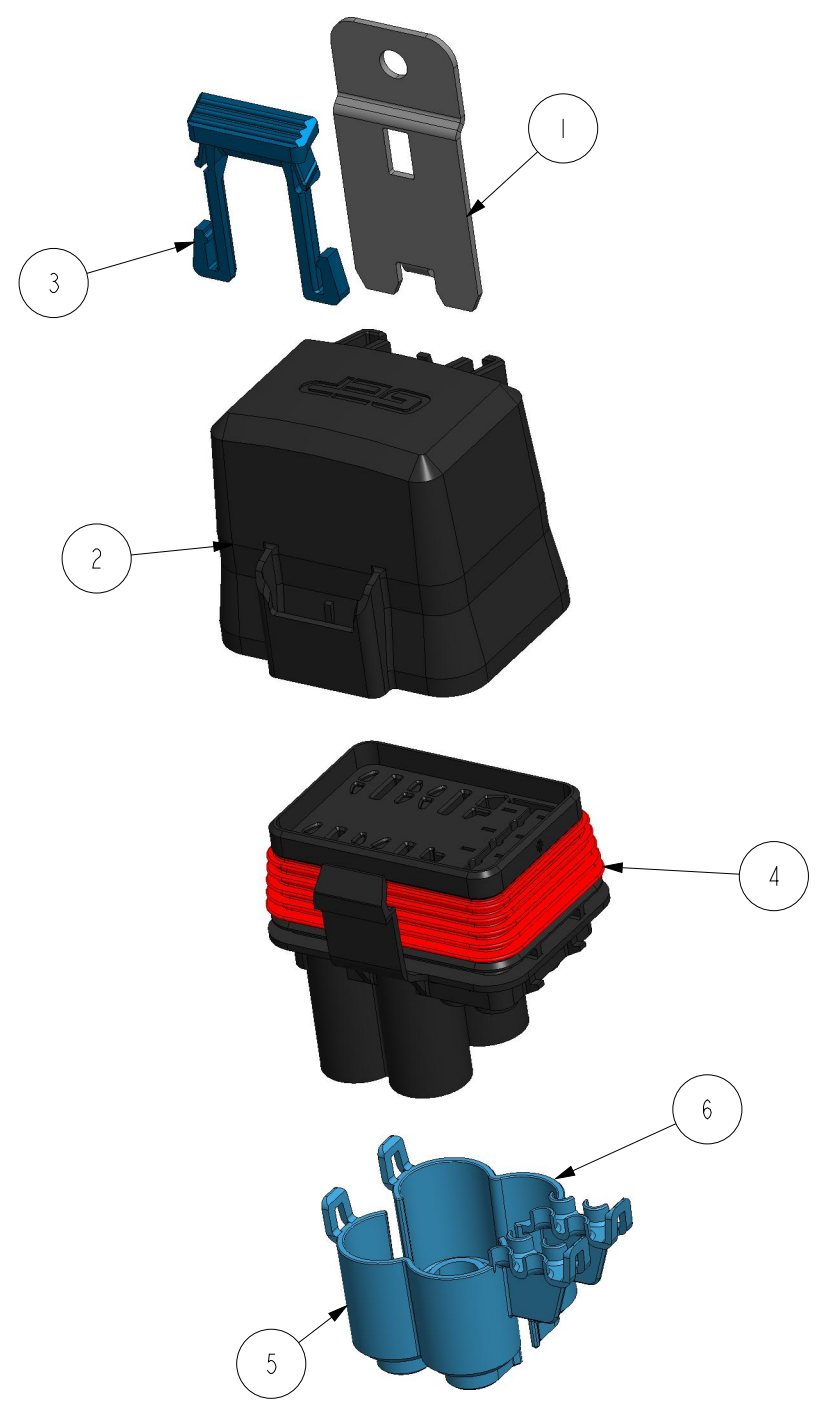
SHEET
1 OF 8

SCALE
1.25:1

SIZE
B



EXAMPLE CONFIGURATION
WITH DIMENSIONAL INFO



EXAMPLE CONFIGURATION
EXPLODE VIEW

- NOTES:
- 1. HOUSING, COVER & CPA MATERIAL: UNFILLED PBT
 - 2. TPA & KEY MATERIAL: NYLON
 - 3. BRACKET MATERIAL: ZINC PLATED STEEL OR STAINLESS STEEL
 - 4. DESIGNED TO USE DELPHI 280 METRI-PACK TERMINALS AND SEALS, LEAR MAK8 TERMINALS AND GEP SEALS, LITTELFUSE MINI & MAXI FUSES (SEE TABLES A & D)
 - 5. MOUNTING HOLE TO ANTI-ROTATION TAB DIM
 - 6. RoHS AND REACH COMPLIANT

EXAMPLE CONFIGURATION BOM			
ITEM	DESCRIPTION	PART NO.	QTY
1	BRACKET - PDM - FRH - FLAT WITH ANTI-ROTATION - ZINC STEEL	FRH-A12-MB-A1	1
2	COVER - PDM, FRH 24 POS	FRH-A24-C	1
3	CPA - PDM - FRH	FRH-A-CPA	1
4	HOUSING AND SEAL - PDM, FRH, MAXI AND MINI	SC42-2014A-A001	1
5	TPA - PDM, FRH, MAXI AND MINI, A	SC38-2013A-B003	1
6	TPA - PDM, FRH, MAXI AND MINI, B	SC38-2013B-B003	1

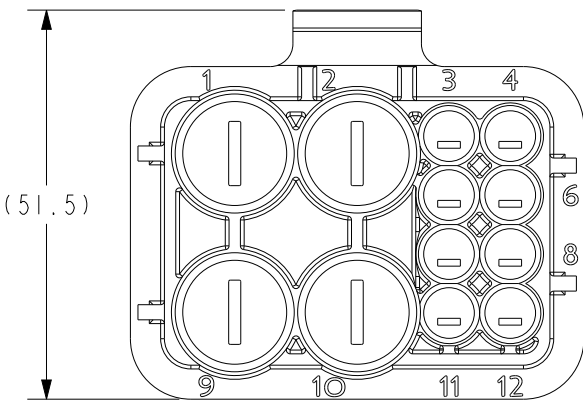
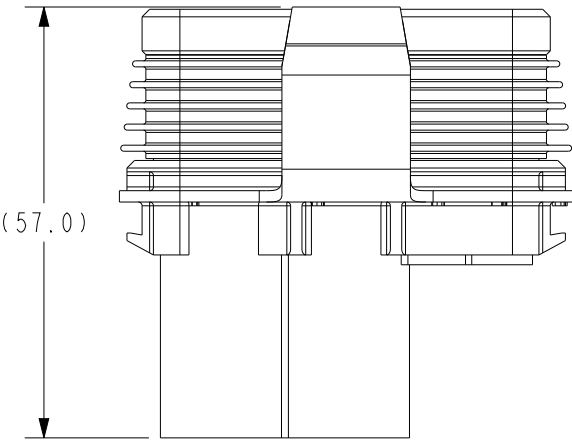
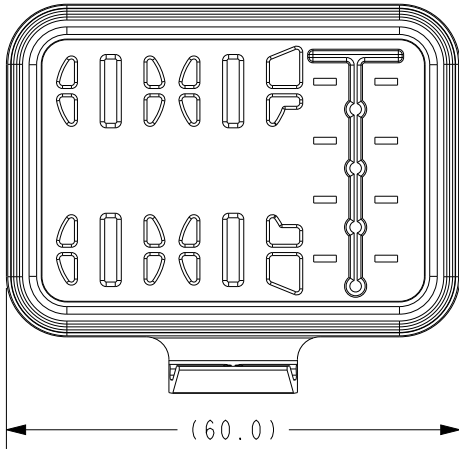


16830 Pheasant Drive
Brookfield, WI 53005

PART NO:		FRH - MAXI AND MINI - SERIES (SALES)		
DESCRIPTION:		FRH - MAXI AND MINI - SERIES		
CUSTOMER:		STANDARD		
METRIC (MM)	REV 4	SHEET 2 OF 8	SCALE 1:1.5	SIZE B

HOUSING W/SEAL OPTIONS

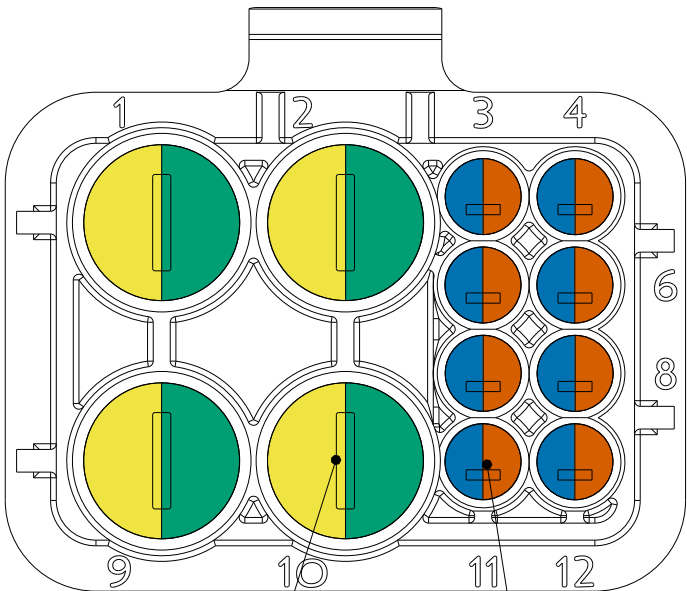
SC42-2014A-A001
HOUSING AND SEAL - PDM, FRH, MAXI AND MINI



		16830 Pheasant Drive Brookfield, WI 53005			
PART NO:		FRH - MAXI AND MINI - SERIES (SALES)			
DESCRIPTION:		FRH - MAXI AND MINI - SERIES			
CUSTOMER:		STANDARD			
METRIC (MM)	REV	SHEET	SCALE	SIZE	
	4	3 OF 8	1:1	B	

HOUSING TERMINALS AND SEALS

SC42-2014A-A001
HOUSING AND SEAL - PDM, FRH, MAXI AND MINI



LEAR MAK8 CAVITIES
SEE TABLE D FOR TERMINALS
AND CABLE SEALS

280 CAVITIES
SEE TABLE A FOR TERMINALS
AND CABLE SEALS

Table A

Table A				
DELPHI 280 METRI-PACK TERMINALS				
PART #	CABLE RANGE (mm ²)	MATERIAL		PLATING
12077413	3	TIN BRASS		TIN
12129493	2.0-3.0	TIN BRASS		TIN
12077411	0.8-1.0	TIN BRASS		TIN
12084201	0.35-0.50	TIN BRASS		TIN
12176387	5	BERYLLIUM COPPER		SILVER/NICKEL
12176388	2.0-3.0	BERYLLIUM COPPER		SILVER/NICKEL
12176389	0.8-1.0	BERYLLIUM COPPER		SILVER/NICKEL
DELPHI 280 METRI-PACK CABLE SEALS (FOR REF. ONLY)				
PART # REEL	PART # LOOSE	CABLE DIA.	MATERIAL	COLOR
12015360	12015193	3.45-4.3	SILICONE	BLUE
12015359	12010293	2.81-3.49	SILICONE	LT. GRAY
12015284	12015323	2.03-2.85	SILICONE	GREEN
12041352	12041351	2.03-2.42	SILICONE	TAN
12089444	12089679	1.6-2.15	SILICONE	PURPLE
12034365	12015899	1.29-1.70	SILICONE	DK. RED
	12010300	PLUG	SILICONE	GREEN
DELPHI 280 METRI-PACK TERMINAL REMOVAL TOOL (FOR REF. ONLY)				
PART # 12094430				

Table D

LEAR MAK8 PLUS TERMINALS (FOR REF. ONLY)			REV 1
PART NUMBER	RANGE (mm ²)	PLATING	VARIATION
28224 306 710	2.5-4.0	SILVER	1 - LONG SEAL
28469 306 189	2.5-4.0	SILVER/TIN	3 - SHORT SEAL
28225 306 710	6.0-10.0	SILVER	1 - LONG SEAL
28459 306 189	6.0-10.0	SILVER/TIN	3 - SHORT SEAL
28243 306 710	10.0-16.0	SILVER	1 - LONG SEAL
GEP CABLE SEALS (VARIATION 1 - LONG)			
PART NUMBER	CABLE DIA.	MATERIAL	COLOR
PDM-TWS-L1	2.7-3.0	SILICONE	GREEN
PDM-TWS-L2	3.4-3.8	SILICONE	PURPLE
PDM-TWS-L3	4.0-4.5	SILICONE	ORANGE
PDM-TWS-L4	4.6-5.3	SILICONE	LIGHT BLUE
PDM-TWS-L5	5.8-6.6	SILICONE	GRAY
PDM-TWS-L6	6.5-7.8	SILICONE	RED
GEP CABLE SEALS (VARIATION 3 - SHORT)			
PDM-TWS-S1	2.7-3.0	SILICONE	GREEN
PDM-TWS-S2	3.4-3.8	SILICONE	PURPLE
PDM-TWS-S3	4.0-4.5	SILICONE	ORANGE
PDM-TWS-S4	4.6-5.3	SILICONE	LIGHT BLUE
PDM-TWS-S5	5.8-6.6	SILICONE	GRAY
GEP CABLE SEAL PLUG			
PDM-TWS-P	N.A.	SILICONE	YELLOW
LEAR MAK8 PLUS TERMINAL REMOVAL TOOL (FOR REF. ONLY)			
PART # 50000017609 BY Karl Pülplichhuisen GmbH & Co.			



16830 Pheasant Drive
Brookfield, WI 53005

PART NO:

FRH - MAXI AND MINI - SERIES (SALES)

DESCRIPTION:

FRH - MAXI AND MINI - SERIES

CUSTOMER:

STANDARD

METRIC (MM)

REV 4

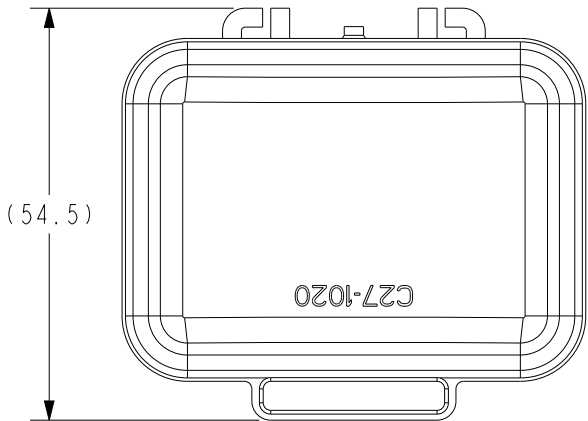
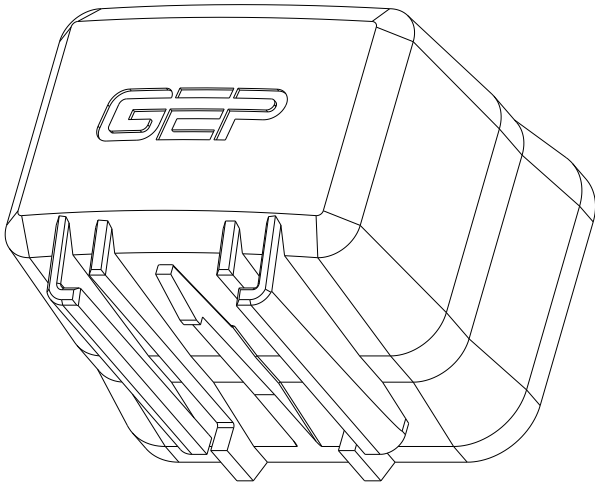
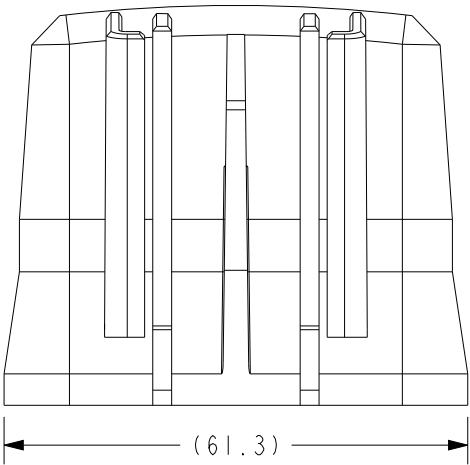
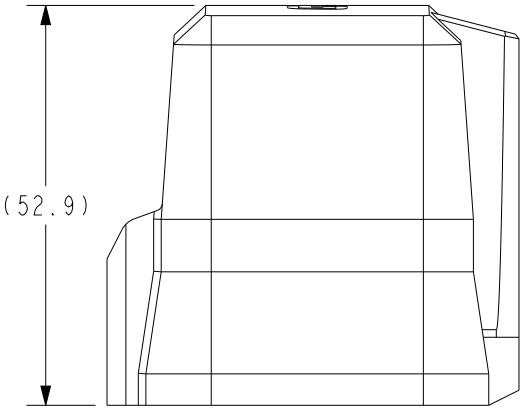
SHEET 4 OF 8

SCALE 1.25:1

SIZE B

COVER OPTIONS

FRH-A24-C
COVER - PDM, FRH 24 POS

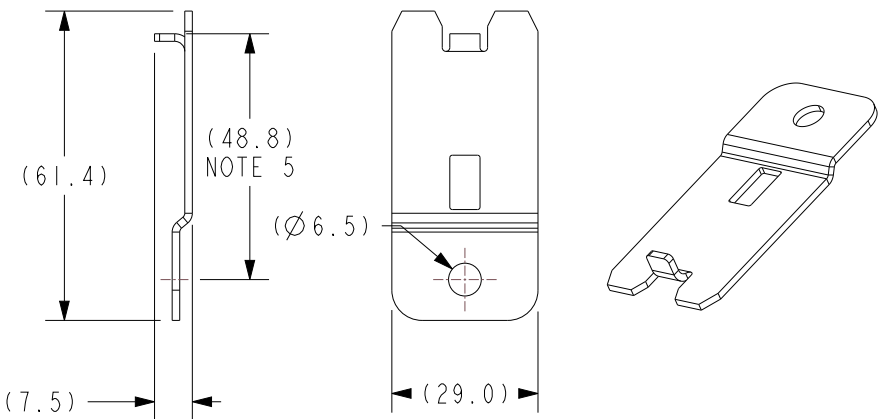


		16830 Pheasant Drive Brookfield, WI 53005			
PART NO:		FRH - MAXI AND MINI - SERIES (SALES)			
DESCRIPTION:		FRH - MAXI AND MINI - SERIES			
CUSTOMER:		STANDARD			
METRIC (MM)	REV	SHEET	SCALE	SIZE	
	4	5 OF 8	1.25:1	B	

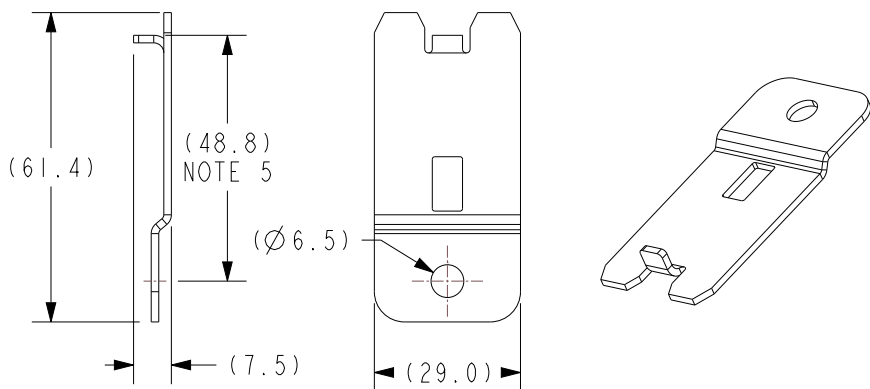
FRH - ACCESSORY OPTIONS

FOR NON-STANDARD MOUNTING OPTIONS EMAIL
GEPENGINEERING@GEPPOWERPRODUCTS.COM TO REVIEW

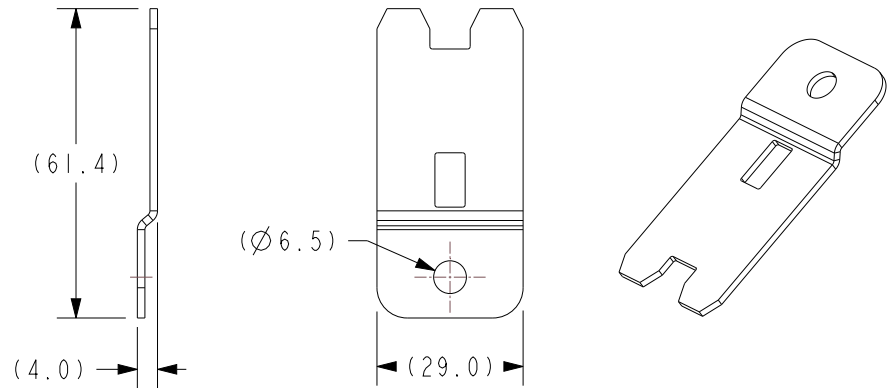
FRH-A12-MB-A1
BRACKET - PDM,FRH,FLAT WITH ANTI-ROTATION, ZINC STEEL



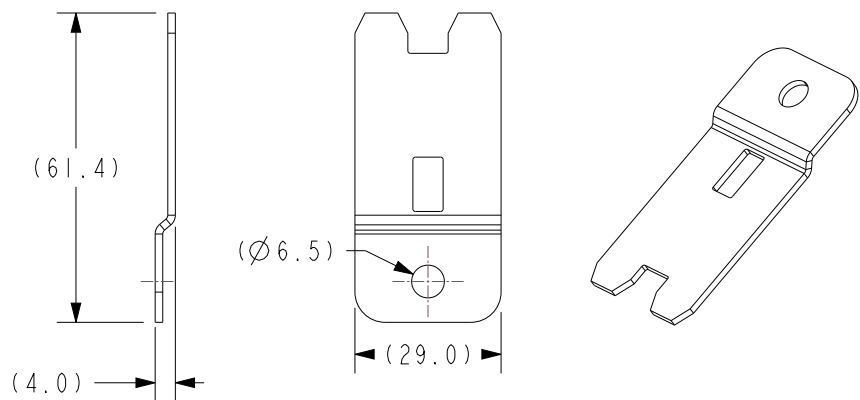
FRH-A12-MB-A2
BRACKET - PDM, FRH, FLAT WITH ANTI-ROTATION, STAINLESS 304



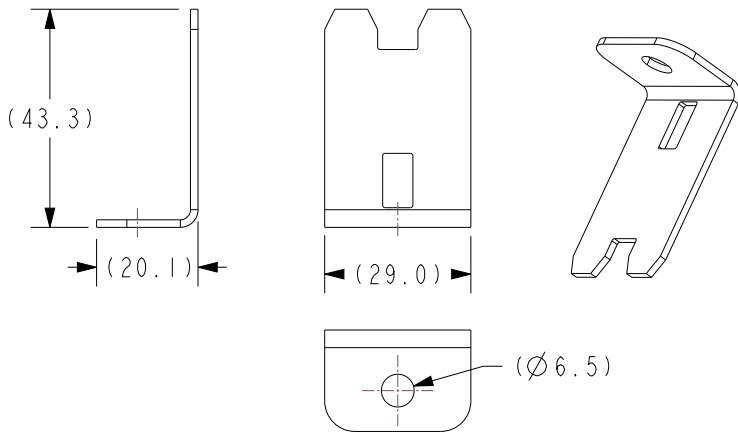
FRH-A12-MB-B1
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, ZINC STEEL



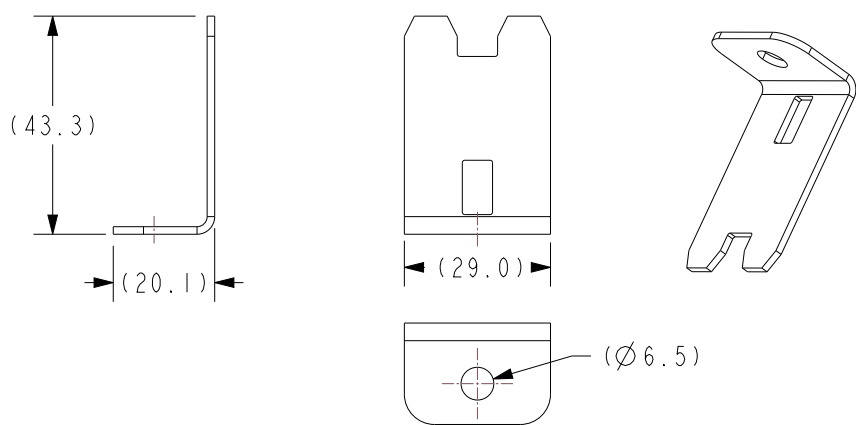
FRH-A12-MB-B2
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, STAINLESS 304



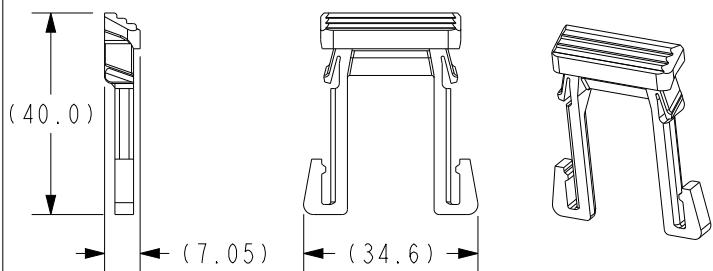
FRH-A12-MB-C1
BRACKET - PDM, FRH, 90° BENT, ZINC STEEL



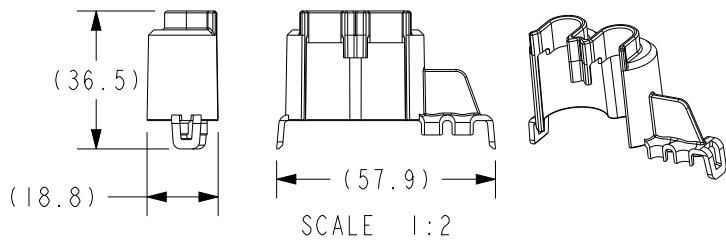
FRH-A12-MB-C2
BRACKET - PDM, FRH, 90° BENT, STAINLESS 304



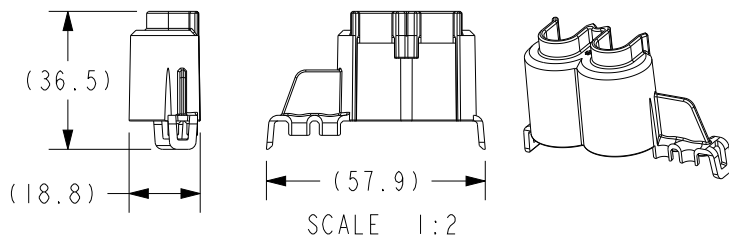
FRH-A-CPA
CPA - PDM, FRH



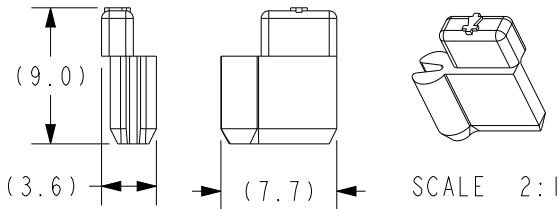
SC38-2013A-B003
TPA - PDM, FRH, MAXI AND MINI, A



SC38-2013B-B003
TPA - PDM, FRH, MAXI AND MINI, B



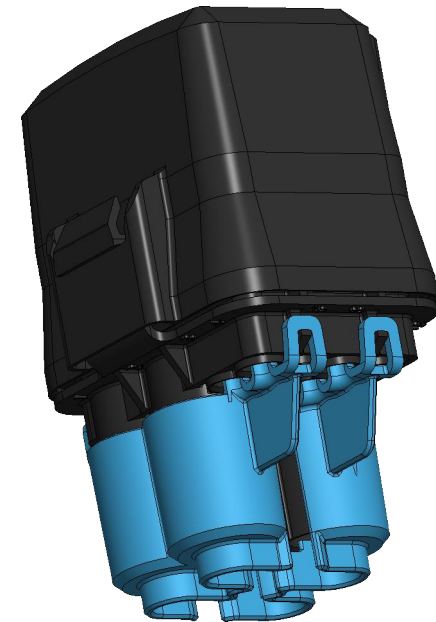
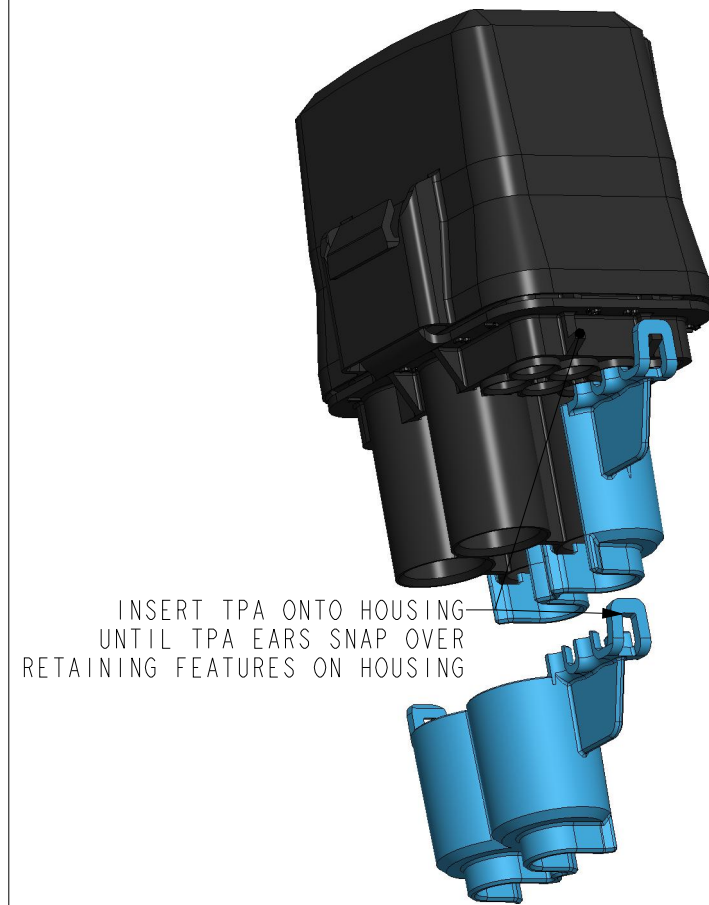
PDM-TK
DIODE KEY



GEP POWER PRODUCTS				
16830 Pheasant Drive Brookfield, WI 53005				
PART NO: FRH - MAXI AND MINI - SERIES (SALES)				
DESCRIPTION: FRH - MAXI AND MINI - SERIES				
CUSTOMER: STANDARD				
METRIC (MM)	REV 4	SHEET 6 OF 8	SCALE 1:1	SIZE B

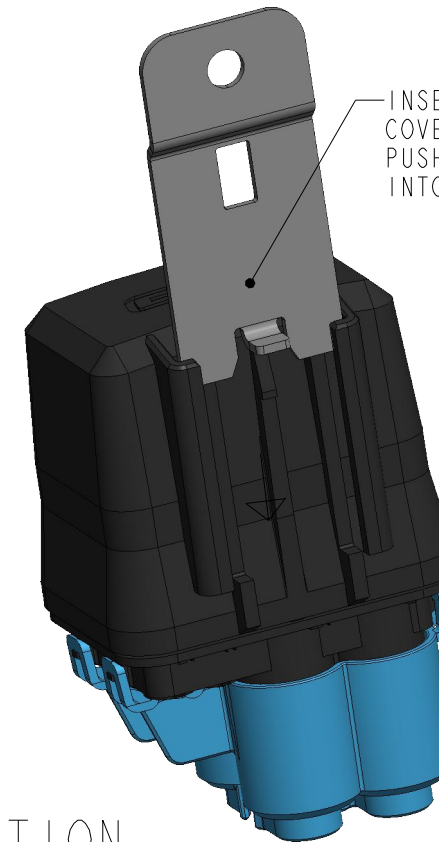
ACCESSORY ASSEMBLY INSTRUCTIONS

TPA INSTALLATION

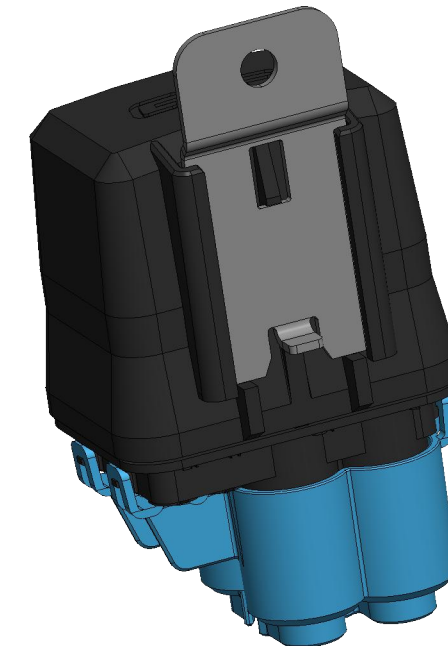


INSTALLED TPAS

MOUNTING BRACKET INSTALLATION

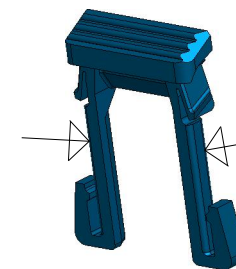


INSERT MOUNTING BRACKET INTO COVER AS SHOWN. PUSH DOWN UNTIL BRACKET SNAPS INTO PLACE.

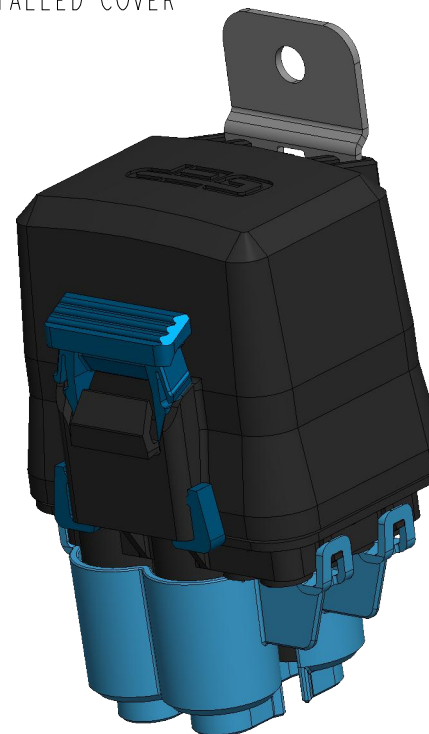
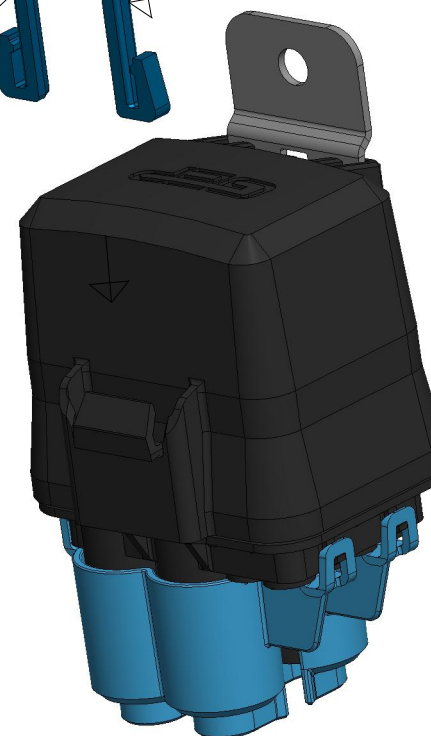


INSTALLED MOUNTING BRACKET

CPA INSTALLATION



PINCH CPA LEGS TOGETHER AND INSERT INTO INSTALLED COVER

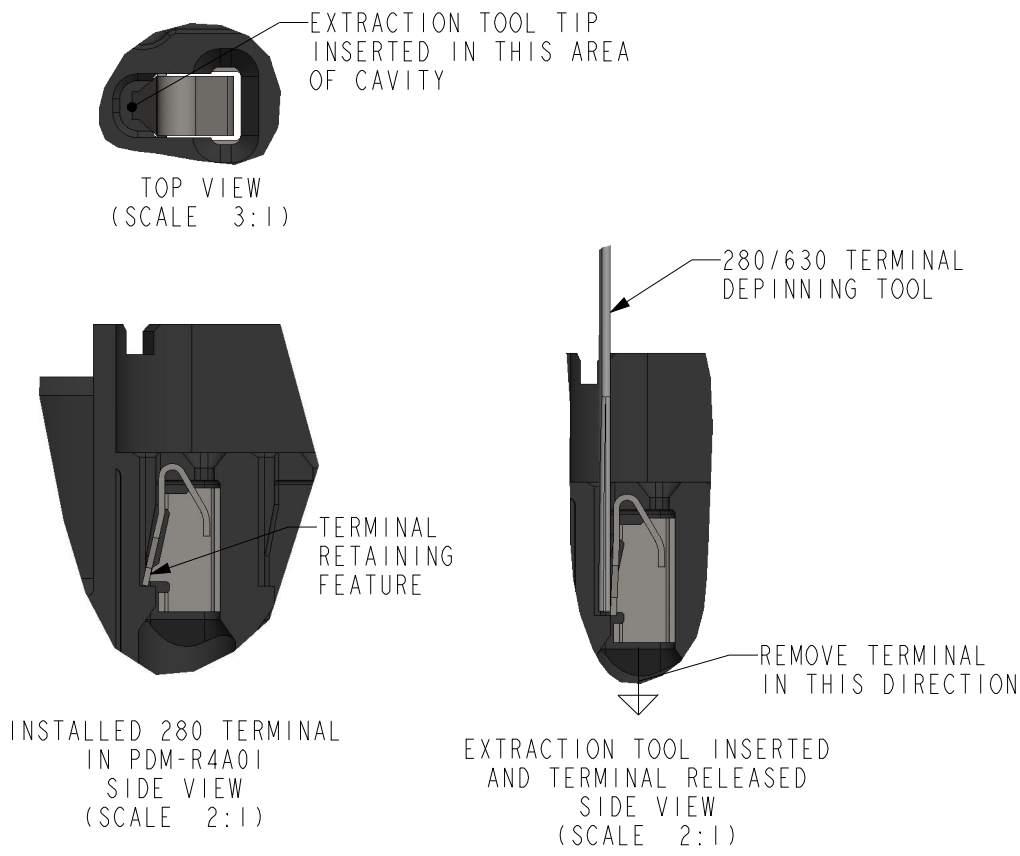


INSTALLED CPA

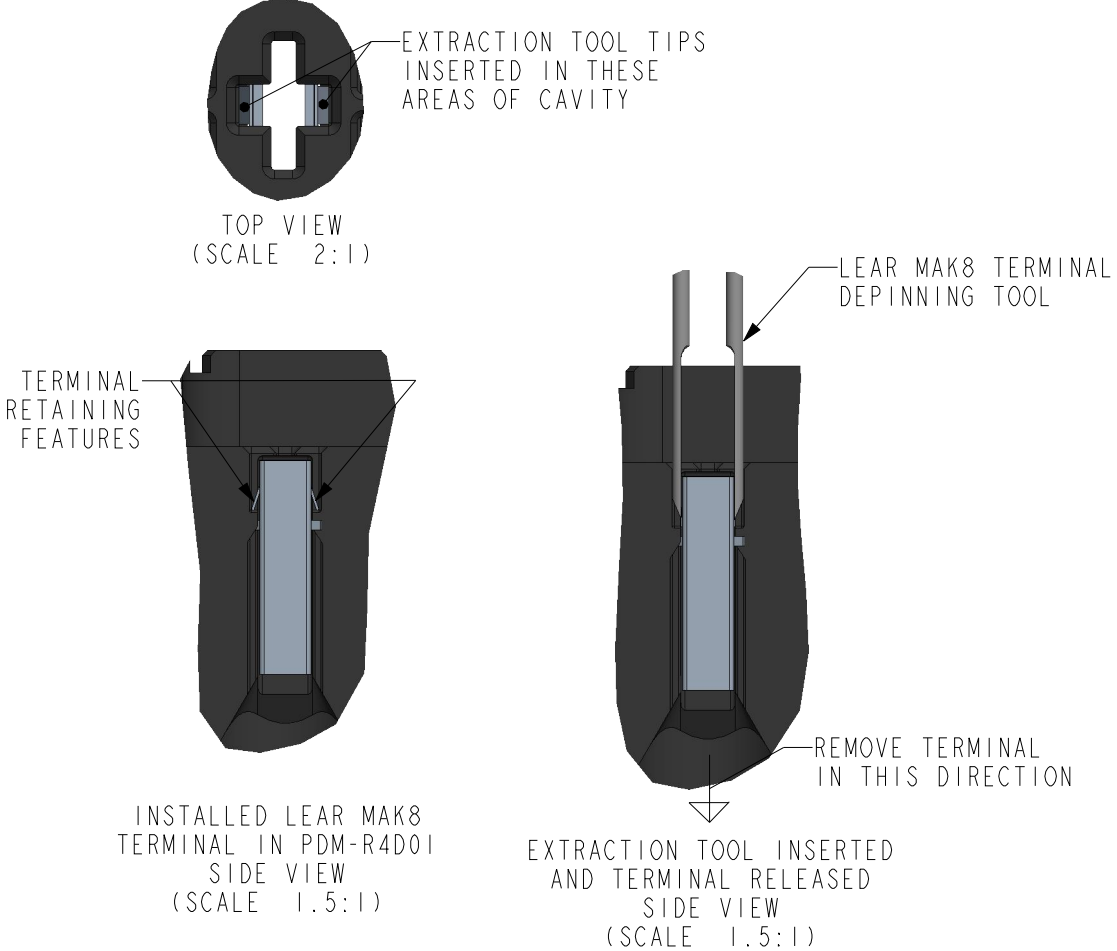
		16830 Pheasant Drive Brookfield, WI 53005			
PART NO:		FRH - MAXI AND MINI - SERIES (SALES)			
DESCRIPTION:		FRH - MAXI AND MINI - SERIES			
CUSTOMER:		STANDARD			
METRIC (MM)	REV 4	SHEET 7 OF 8	SCALE 1:1.25	SIZE B	

DEPINNING INSTRUCTIONS

280 TERMINAL DEPINNING



LEAR MAK8 TERMINAL DEPINNING



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH - MAXI AND MINI - SERIES (SALES)		
DESCRIPTION:		FRH - MAXI AND MINI - SERIES		
CUSTOMER:		STANDARD		
METRIC (MM)	REV	SHEET	SCALE	SIZE
	4	8 OF 8	1:1	B