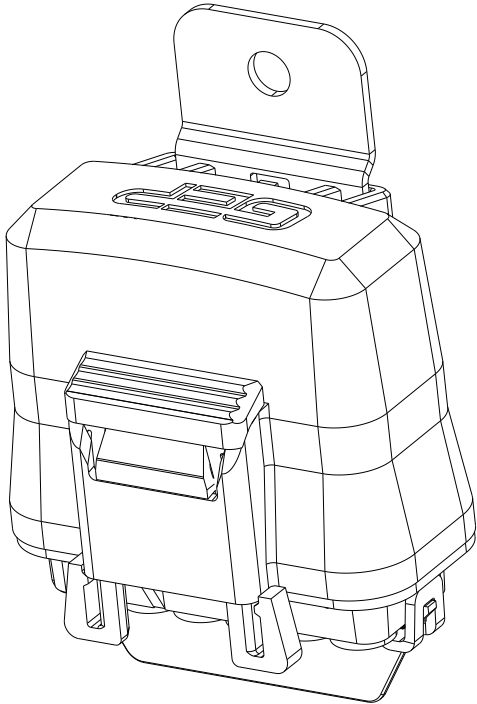
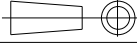


REV	REVISION DETAILS	ECO	DATE	BY	ABY
0	INITIAL RELEASE	NP-0660	11-27-2017	JWK	JML
1	UPDATED TO LATEST DRAWING STANDARDS. ADDED SC42-2018A-A001 AS HOUSING AND SEAL OPTION. ADDED SC19-2001A-A001, SC56-2000A-B001, SC55-2000A-A001 AS ACCESSORY OPTIONS. UPDATED PART NUMBER AND DESCRIPTION.	NP-005914	02-13-2024	JWK	JML
2	UPDATED NOTES	NP-006181	06-12-2024	JWK	JML

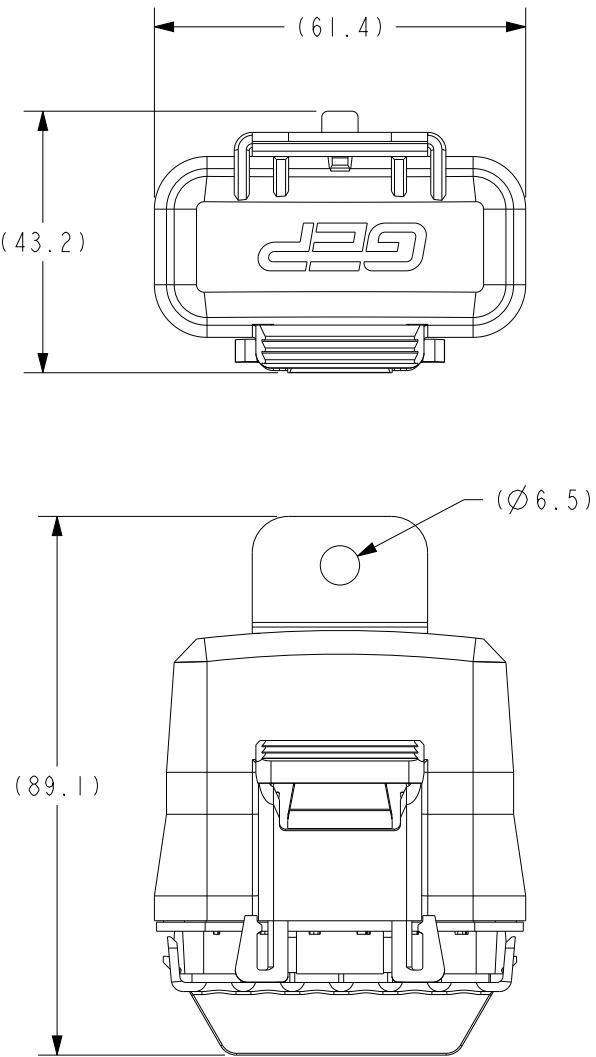


ISO VIEW
FOR REF ONLY

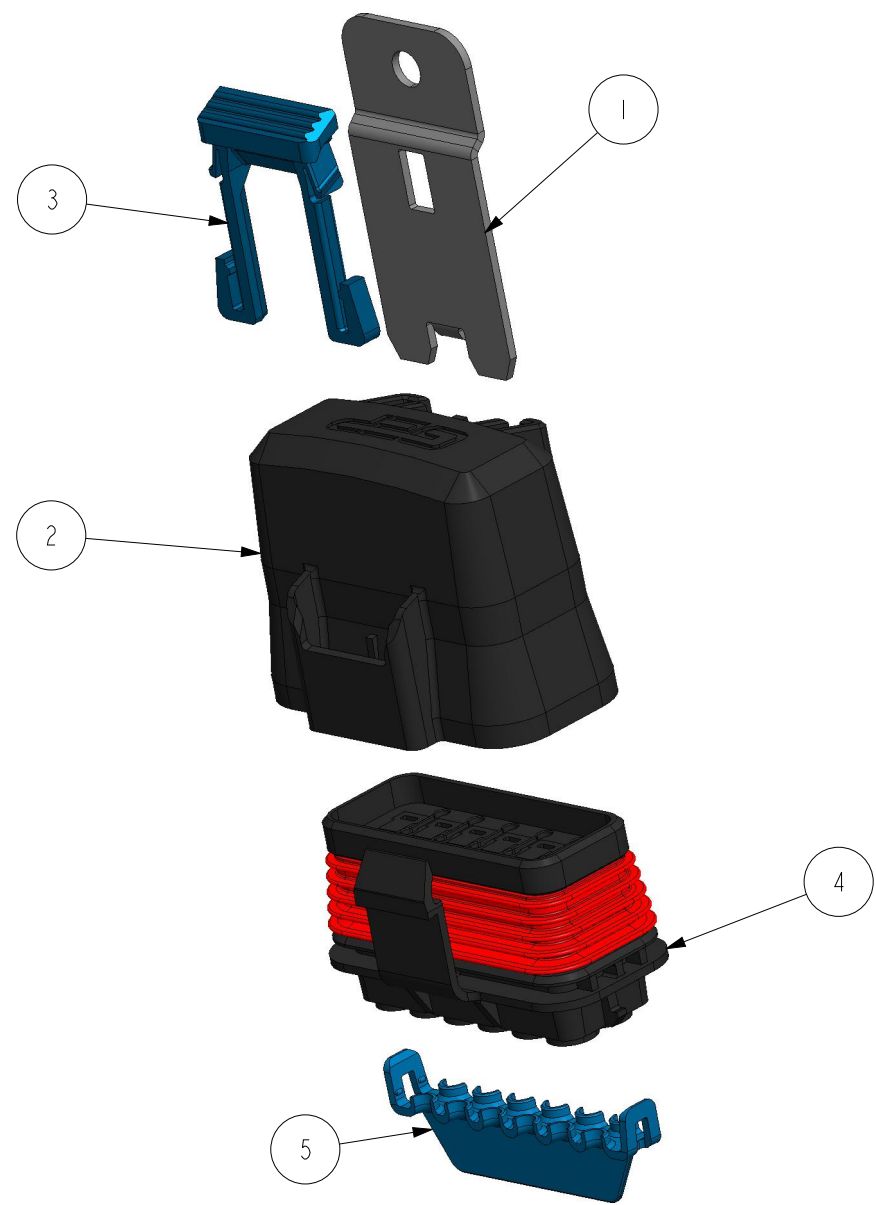
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 CRITICAL DIMENSIONS ON FEATURES TO BE CHECKED DURING ANY SET-UP ADJUSTMENTS, TOOL CHANGES, OR ANNUAL MAINTENANCE ON TOOLING.	 DIMENSIONS OR FEATURES TO BE CHECKED FROM RUN-TO-RUN	
TOLERANCES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION 
METRIC TOL	ENGLISH TOL	ANGULAR TOL= $\pm 2^{\circ}$ FRACTION TOL= $\pm 1/64$ IN
1 PL DEC. = $\pm .25$ 2 PL DEC. = $\pm .13$	2 PL DEC. = $\pm .01$ 3 PL DEC. = $\pm .005$	DIMENSIONS INSIDE PARENTHESES OR CONTAINING "REF" ARE FOR REFERENCE ONLY.
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		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH-A12 PDM SERIES (SALES)		
DESCRIPTION:		FRH-A12 PDM SERIES (SALES)		
CUSTOMER:		STANDARD		
METRIC (MM)	REV 2	SHEET 1 OF 7	SCALE 1:1	SIZE B

EXAMPLE CONFIGURATION & NOTES



EXAMPLE CONFIGURATION
WITH DIMENSIONAL INFO



EXAMPLE CONFIGURATION
EXPLODE VIEW

- NOTES:
- 1. BASE, COVER, & CPA MATERIAL: UNFILLED PBT
 - 2. TPA & DIODE KEY MATERIAL: NYLON
 - 3. BRACKET MATERIAL: ZINC PLATED STEEL OR STAINLESS STEEL (SEE PART DESCRIPTION)
 - 4. DESIGNED TO USE DELPHI 280 METRI-PACK TERMINALS AND SEALS (SEE TABLE A)
 - 5. RoHS AND REACH COMPLIANT

EXAMPLE ASSEMBLY 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, 12 POS, GEP	FRH-A12-C	1
3	CPA - PDM, FRH	FRH-A-CPA	1
4	HOUSING AND SEAL - PDM, FRH, 12 POS	FRH-A12	1
5	TPA - PDM, FRH	FRH-A12-T	1

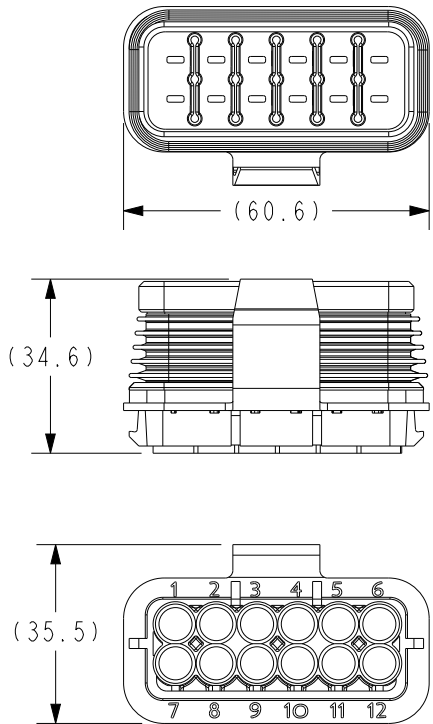


16830 Pheasant Drive
Brookfield, WI 53005

PART NO: FRH-A12 PDM SERIES (SALES)				
DESCRIPTION: FRH-A12 PDM SERIES (SALES)				
CUSTOMER: STANDARD				
METRIC (MM)	REV 2	SHEET 2 OF 7	SCALE 1:1.25	SIZE B

HOUSING W/SEAL OPTIONS

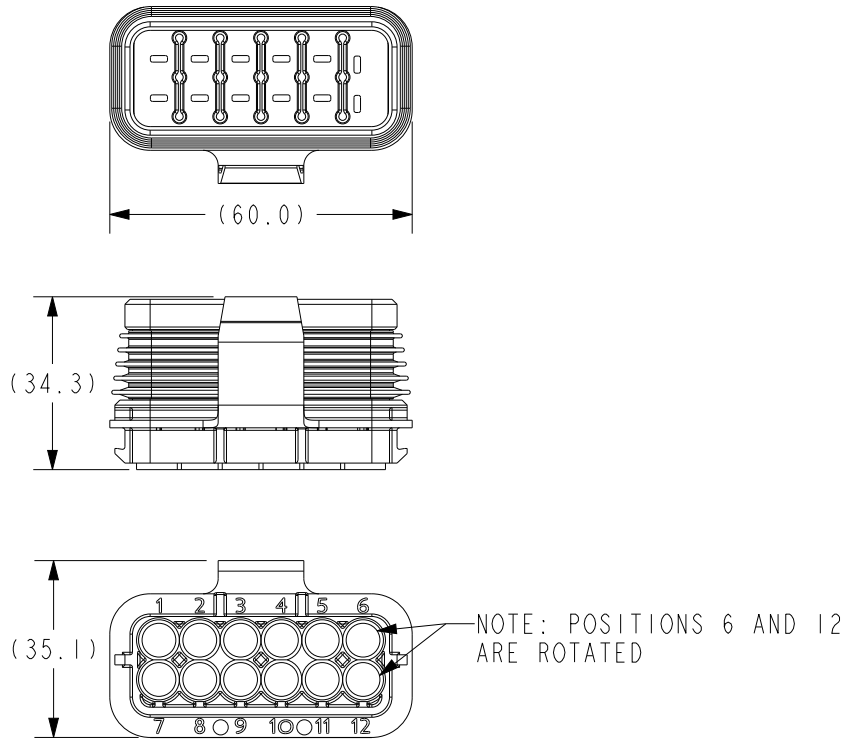
FRH-A12
HOUSING AND SEAL - PDM, FRH 12 POS
(FOR TERMINALS AND SEALS
SEE TABLE A)



FRH-A12 EXAMPLE
POPULATED WITH FUSES/RELAY



SC42-2018A-A001
HOUSING AND SEAL - PDM
FRH 12 POS - ROTATED FUSE
(FOR TERMINALS AND SEALS
SEE TABLE A)



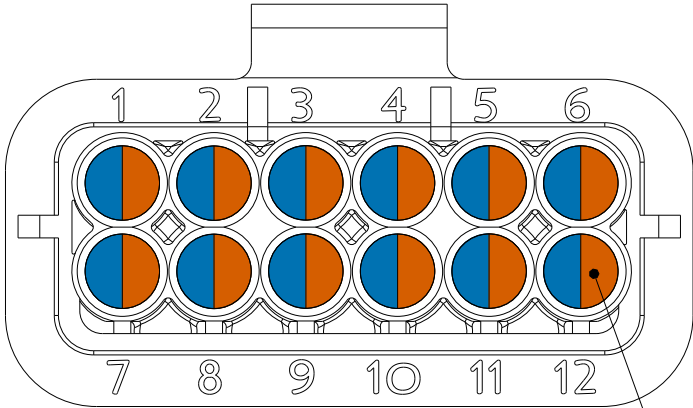
SC42-2018A-A001 EXAMPLE
POPULATED WITH FUSES/RELAY



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH-A12 PDM SERIES (SALES)		
DESCRIPTION:		FRH-A12 PDM SERIES (SALES)		
CUSTOMER:		STANDARD		
METRIC (MM)	REV 2	SHEET 3 OF 7	SCALE 1:1.5	SIZE B

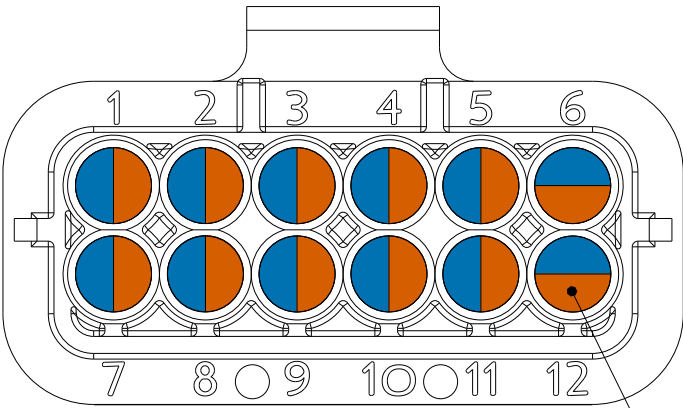
HOUSING TERMINALS AND SEALS

FRH-A12
HOUSING AND SEAL - PDM, FRH 12 POS



280 CAVITIES
SEE TABLE A FOR TERMINALS
AND CABLE SEALS

SC42-2018A-A001
HOUSING AND SEAL - PDM
FRH 12 POS - ROTATED FUSE



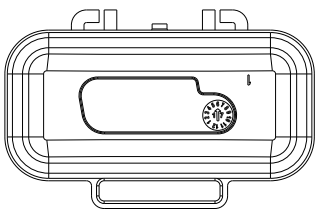
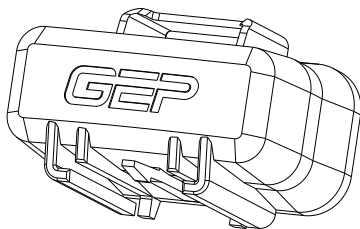
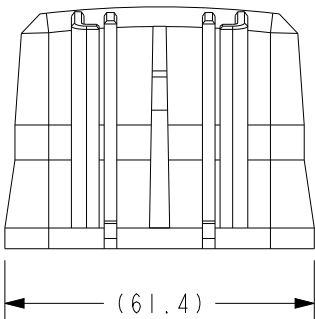
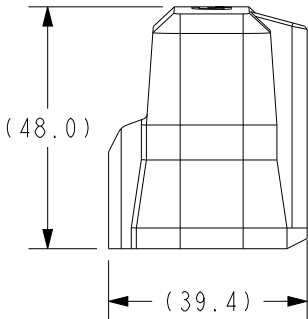
280 CAVITIES
SEE TABLE A FOR TERMINALS
AND CABLE SEALS

Table A

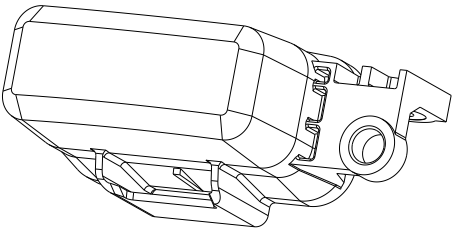
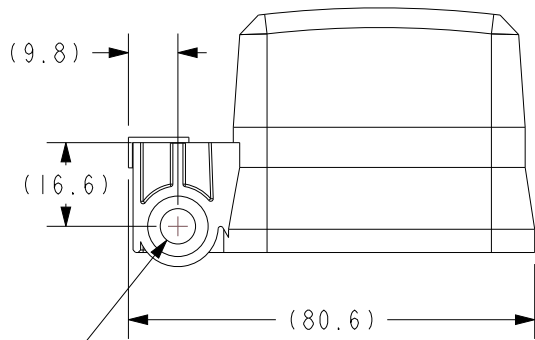
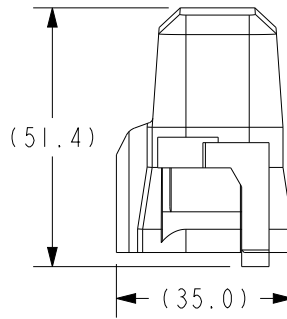
Table A				
DELPHI 280 METRI-PACK TERMINALS				
PART #	CABLE RANGE (mm ²)	MATERIAL		PLATING
12077413	3	TIN BRASS		TIN
12129493	2.0-3.0	TIN BRASS		TIN
12077411	0.8-1.0	TIN BRASS		TIN
12084201	0.35-0.50	TIN BRASS		TIN
12176387	5	BERYLLIUM COPPER		SILVER/NICKEL
12176388	2.0-3.0	BERYLLIUM COPPER		SILVER/NICKEL
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				

COVER OPTIONS

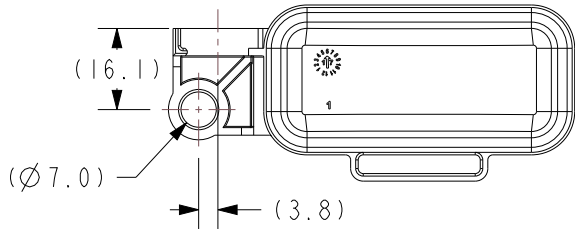
FRH-A12-C
COVER - PDM, FRH, 12 POS, GEP



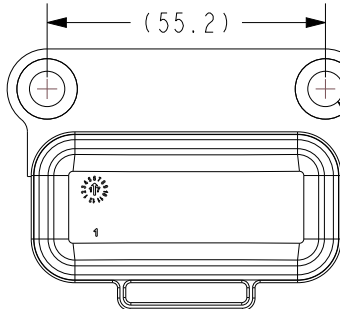
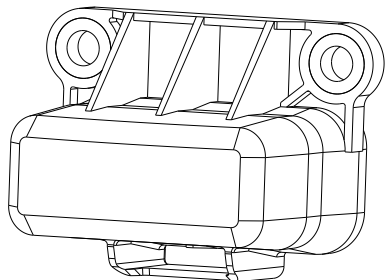
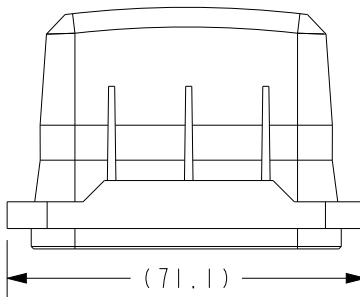
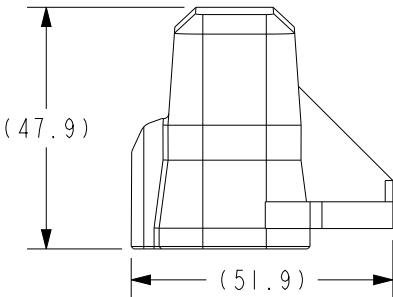
FRH-A12-CB-1
COVER - PDM, FRH 12 POS, SINGLE SIDE MOUNT, PLAIN



Ø7.0 ID, Ø12.0 OD
BRASS BUSHING



FRH-A12-CD-1
COVER - PDM, FRH 12 POS, DOUBLE SIDE MOUNT, PLAIN



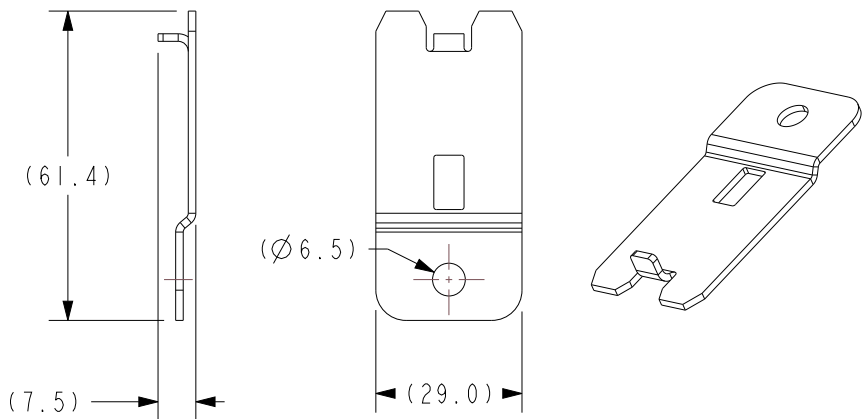
2X
Ø7.0 ID, Ø12.0 OD
BRASS BUSHING

		16830 Pheasant Drive Brookfield, WI 53005			
PART NO:		FRH-A12 PDM SERIES (SALES)			
DESCRIPTION:		FRH-A12 PDM SERIES (SALES)			
CUSTOMER:		STANDARD			
METRIC (MM)	REV	SHEET	SCALE	SIZE	
	2	5 OF 7	1:1	B	

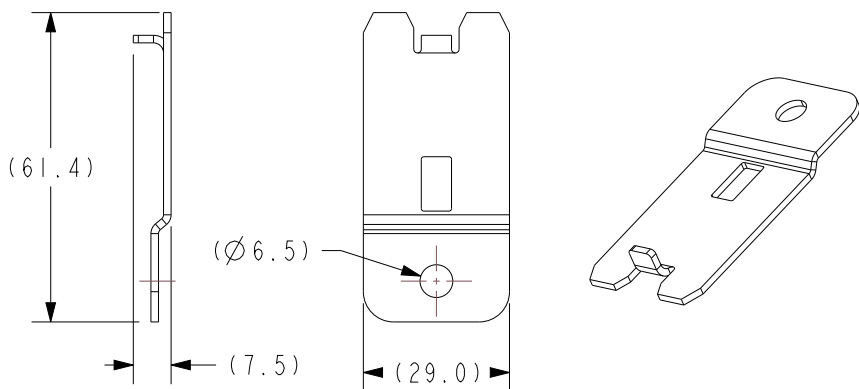
FRH - ACCESSORY OPTIONS

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

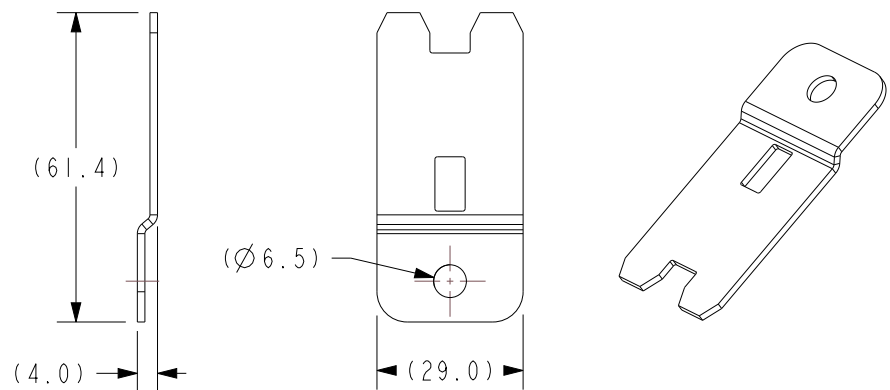
FRH-A12-MB-A1
BRACKET - PDM,FRH,FLAT WITH ANTI-ROTATION, ZINC STEEL



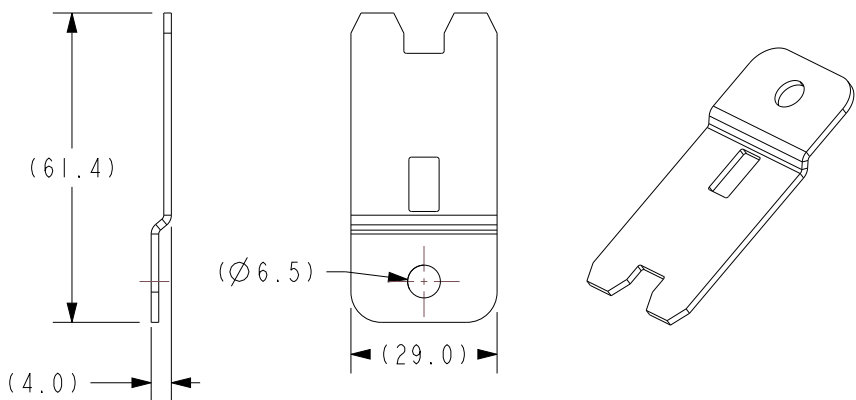
FRH-A12-MB-A2
BRACKET - PDM, FRH, FLAT WITH ANTI-ROTATION, STAINLESS 304



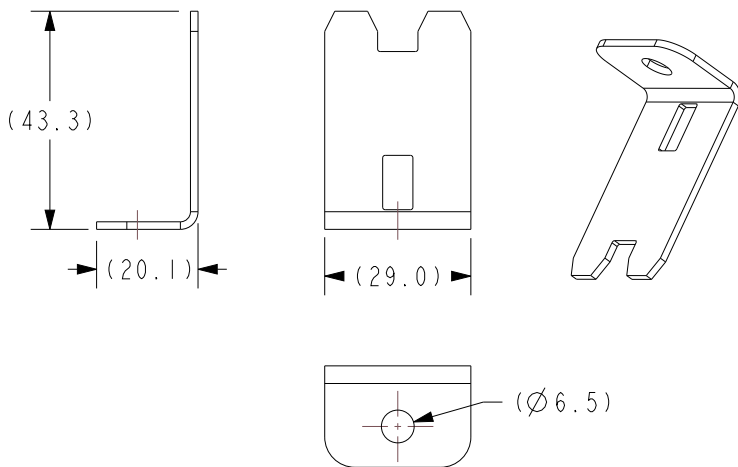
FRH-A12-MB-B1
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, ZINC STEEL



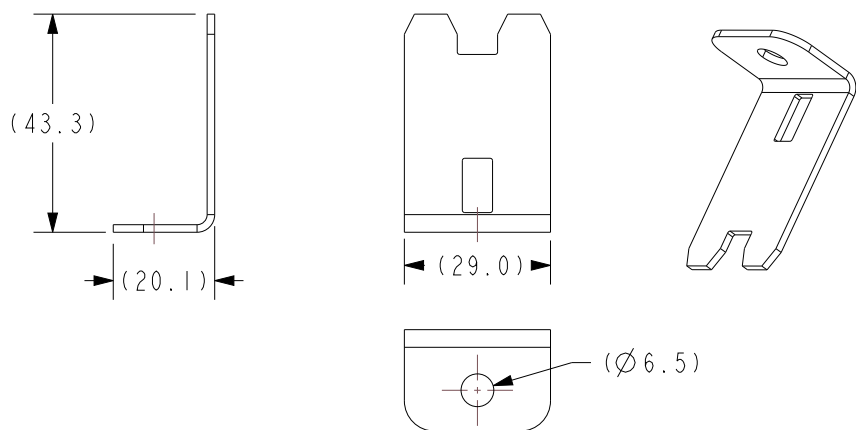
FRH-A12-MB-B2
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, STAINLESS 304



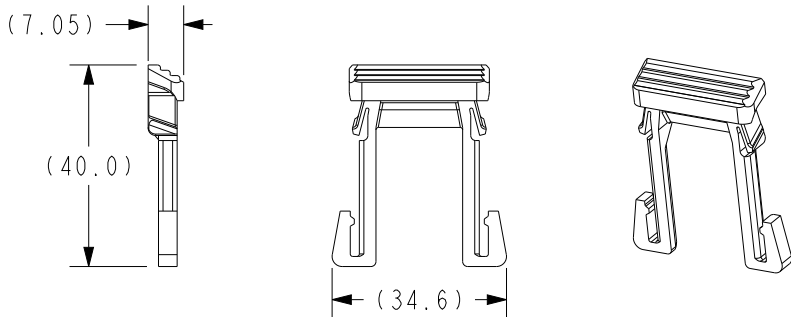
FRH-A12-MB-C1
BRACKET - PDM, FRH, 90° BENT, ZINC STEEL



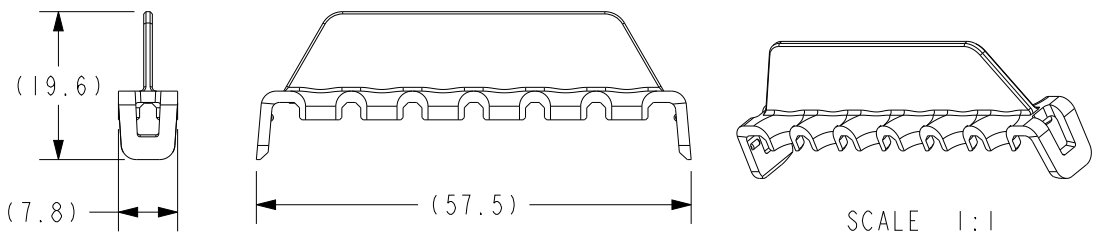
FRH-A12-MB-C2
BRACKET - PDM, FRH, 90° BENT, STAINLESS 304



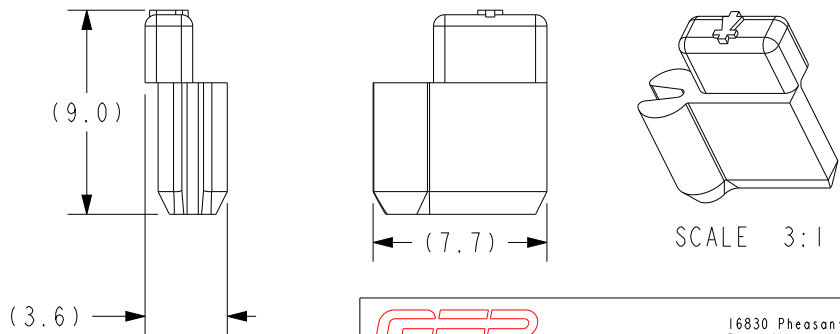
FRH-A-CPA
CPA - PDM, FRH



FRH-A12-T
TPA - PDM, FRH



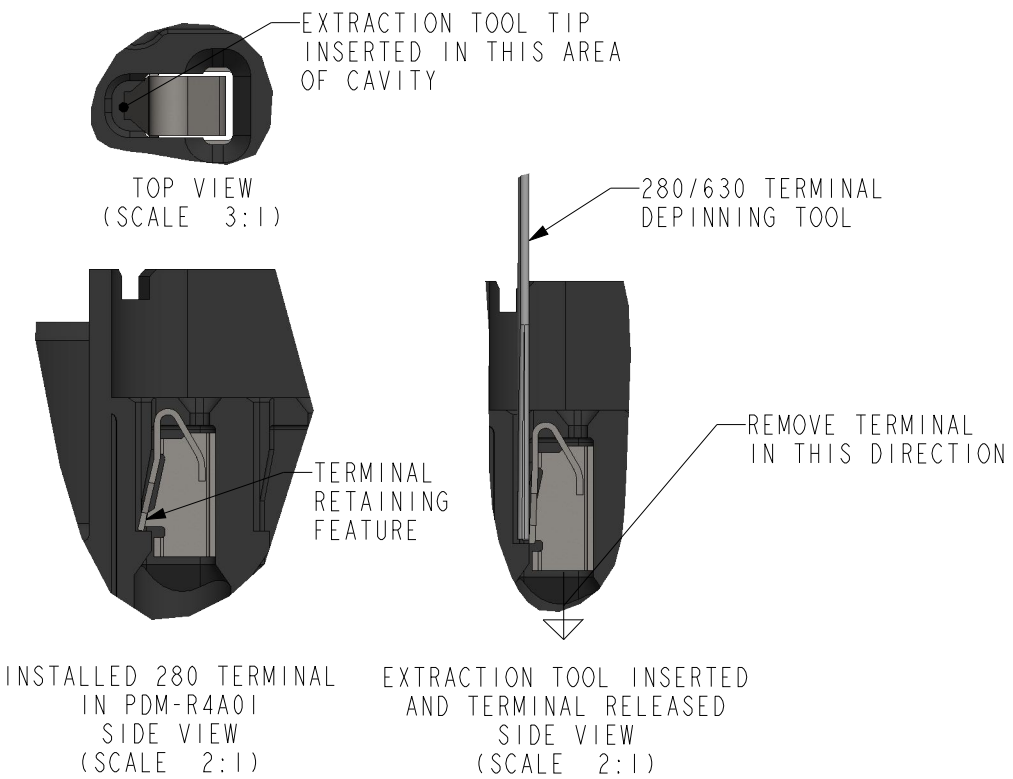
PDM-TK
DIODE KEY



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH-A12 PDM SERIES (SALES)		
DESCRIPTION:		FRH-A12 PDM SERIES (SALES)		
CUSTOMER:		STANDARD		
METRIC (MM)	REV	SHEET	SCALE	SIZE
	2	6 OF 7	1:1.5	B

DEPINNING INSTRUCTIONS

280 TERMINAL DEPINNING



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH-A12 PDM SERIES (SALES)		
DESCRIPTION:		FRH-A12 PDM SERIES (SALES)		
CUSTOMER:		STANDARD		
METRIC (MM)	REV 2	SHEET 7 OF 7	SCALE 1:1	SIZE B