

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APP
	A	T1 & T2 FOR VR AND RF PRODUCT WAS -60° TO 227°C. IN THE Tamb CHART FOR ELECTRONIC BASED PRODUCT; T4 WAS -40° TO 118, T5 WAS -40° TO 83°C, AND T6 WAS -40° TO 68°C. ADDED NOTE FOR 1.5mm THICK SEALING WASHER.	2/18/11	JD
	B	FINALIZED Tamb CHARTS.	3/31/11	JD
D4, C4	C	T1 REMOVED AND ADDED xx°C ≤ Ta ≤ xx°C TO REFLECT FINAL CONFIGURATION PER LCIE 11 ATEX 3029 X CERTIFICATION. REMOVED Tamb CHARTS FOR VR, RF AND ELECTRONIC BASED PRODUCT.	6/8/11	JD
	D	ADDED NOTE THAT SOME PRODUCTS ARE ONLY SUITABLE UP TO T4 DUE TO EPOXY USED; MARKING MAY VARY.	11/16/15	MB
	E	ADDED NOTE THAT JOINTS CANNOT BE REPAIRED, NO POWDERCOAT, AND REGARDING USE OF GREASE	8/1/17	MBP
	F	ADDED CONDITIONS FOR SAFE USE	11/9/17	JW

- THE EQUIPMENT MAY BE USED WITH FLAMMABLE GASES AND VAPORS FOR USE INDOORS OR OUTDOORS IN HAZARDOUS LOCATIONS Ex d IIA THROUGH IIC, AND WITH TEMPERATURE CLASSES T2, T3, T4, T5 AND T6.
- INSTALLATION OF THIS EQUIPMENT SHALL BE CARRIED OUT BY SUITABLY TRAINED PERSONNEL, IN ACCORDANCE WITH THE APPLICABLE CODE OF PRACTICE.
- INSPECTION AND MAINTENANCE OF THIS EQUIPMENT SHALL BE CARRIED OUT BY SUITABLY TRAINED PERSONNEL, IN ACCORDANCE WITH THE APPLICABLE CODE OF PRACTICE.
- GROUNDING AND BONDING:  
PROVISION FOR INTERNAL GROUNDING IS NOT REQUIRED, AS GROUNDING SHALL BE PROVIDED BY METALLIC CONDUIT. IF NON-METALLIC CONDUIT IS USED AN INTERNAL GROUND IS REQUIRED.

INTERNAL GROUND MUST BE FACTORY INSTALLED AND THIS REQUIREMENT MUST BE SPECIFIED WHEN THE EQUIPMENT IS ORDERED.

IF ARMORED CABLE IS USED THE CABLE SHIELD AND/OR DRAIN WILL BE BONDED EITHER TO THE CABLE GLAND OR TO THE HOUSING AS THE FACTORY INSTALLED GROUNDING PROVISION.

GROUNDING MUST BE IN ACCORDANCE WITH APPLICABLE CODE OF PRACTICE.

- TO ENSURE THE MAXIMUM THREADS OF ENGAGEMENT, IF A SEALING WASHER IS USED, THE MAXIMUM WASHER THICKNESS IS 1.5mm.
- MARKING:  
Ex d IIC-IIA T6 TO T2  
xx°C ≤ Ta ≤ xx°C
- REFER TO CERTIFICATION AND PART LABEL FOR THE Tamb RANGE. SOME PRODUCTS ARE ONLY SUITABLE UP TO T4 DEPENDING UPON EPOXY USED. MARKING FOR THOSE PARTS WILL BE DIFFERENT.
- FLAMEPROOF JOINTS ARE NOT INTENDED TO BE REPAIRED
- THE SURFACE OF JOINTS MAY BE PROTECTED AGAINST CORROSION. COATING WITH PAINT OR POWDER COAT IS NOT PERMITTED
- CORROSION INHIBITING GREASE MAY BE APPLIED TO JOINT SURFACES PRIOR TO ASSEMBLY. THE GREASE SHALL BE OF A TYPE THAT DOES NOT HARDEN BECAUSE OF AGING, DOES NOT CONTAIN AN EVAPORATING SOLVENT, AND DOES NOT CAUSE CORROSION OF THE JOINT SURFACES.

**SPECIAL CONDITIONS FOR SAFE USE**

THE MATING TO FLAMEPROOF ENCLOSURE THREADED TYPES MUST BE PERFORMED BY A CERTIFIED CONNECTOR FOR THE CONSIDERED TO USE.

AMBIENT TEMPERATURE:  
PRODUCT FILLED IN WITH EPOXY RESIN:

EMERSON & CUMING, EPOXIES INC. OR EQUAL: STYCAST 2651-40 OR STYCAST 2850 FT		
CATALYST	AMBIENT TEMPERATURE	TEMPERATURE CLASS
17M-1	-20 ≤ Ta ≤ +70°C	T6
	-20 ≤ Ta ≤ +85°C	T5
	-20 ≤ Ta ≤ +120°C	T4
	-20 ≤ Ta ≤ +185°C	T3
	-20 ≤ Ta ≤ +200°C	T2
9	-40 ≤ Ta ≤ +70°C	T6
	-40 ≤ Ta ≤ +85°C	T5
	-40 ≤ Ta ≤ +100°C	T4
11	-55 ≤ Ta ≤ +70°C	T6
	-55 ≤ Ta ≤ +85°C	T5
	-55 ≤ Ta ≤ +120°C	T4
	-55 ≤ Ta ≤ +125°C	T3
24LV	-65 ≤ Ta ≤ +70°C	T6
	-65 ≤ Ta ≤ +75°C	T5

CERTIFIÉ / CONFORME
NAME
DATE

MATERIAL	APPROVALS
	DRAWN N. MEADOWS DATE 9/29/10
	CHECK M. BERGMAN 9/29/10
FINISH	ISSUED JDEFEO 10/5/10
NEXT ASSY	USED ON
APPLICATION	

CONFIDENTIAL PROPERTY OF MOTION SENSORS, INC. (MSI) NOT TO BE DISCLOSED TO OTHERS, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, EXCEPT AS AUTHORIZED IN WRITING BY MSI. MUST BE RETURNED ON DEMAND.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES OTHER THAN THE SIZE OF RAW MATERIAL SHALL BE HELD AS FOLLOWS:  
 2 PLACE DECIMAL ± .01  
 3 PLACE DECIMAL ± .005  
 FRACTIONAL ± 1/64  
 ANGULAR ± 1/2°

**MOTION SENSORS, INC.**  
**ELIZABETH CITY, NC 27909**

TITLE: **INSTALLATION FOR EXPLOSION PROOF PICKUPS,**

SIZE	CAGE CODE	DWG NO	REV
C	OY2U4	ST-A-1810	F
SCALE	NONE	SHEET	1 OF 1