Certificate of Compliance

Certificate: 70010389 (LR 104031) **Master Contract:** 182407

Project: 70076838 **Date Issued:** June 3, 2016

Issued to: **Hummel AG**

Lise-Meitner-Strasse 2
Denzlingen, 79211
Germany
Attention: Klaus Gehri

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

C US

Marin Banu

Issued by: Marin Banu

PRODUCTS

CLASS 4418 85 - CABLE-Hardware - For Hazardous Locations-Certified to U.S. Standards
CLASS 4418 05 - CABLE - Hardware - For Hazardous Locations

Class I, Div 2, Groups A, B, C, D; Class II, Div 1 or 2, Groups E, F and G

Class I, Zone 1, Ex/AEx e IIC Gb

Class II, Zone 1, Ex/AEx ta IIIC Da

- Polyamide Cable Glands, Models HSK-K-Ex-ACTIVE; Operating temperature -20°C to +85°C. IP 68 at 10 bar.

Notes: 1. Cable glands sizes M12, M16 and NPT 3/8" to be protected by the enclosure against mechanical impact energy levels higher than 4 Joule.

2. The classification of the temperatures to the Temperature Code of the bushing is to be determined in the type test of the respective electrical equipment.

3. Suitability of end use installation to be determined by certification body or Local Authority having Jurisdiction.

- Cable glands type HSK-K-Multi-Ex-Active 1 .581.****.** and HSK-K-Flaka-Ex-Active 1.582.****.**; Operating temperature -20°C to +85°C. IP 68 at 10 bar.

Notes: 1. Cable glands sizes M12, M16 and NPT 3/8" to be protected by the enclosure against mechanical impact energy levels higher than 4 Joule.

2. The cable glands are with O-ring sealing made of NBR, additionally they can be used with FKM or VMQ sealing.

3. The classification of the temperatures to the Temperature Code of the bushing is to be determined in the type test of the respective electrical equipment.

4. Suitability of end use installation to be determined by certification body or Local Authority having Jurisdiction

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 0-10	-	General Requirements – Canadian Electrical Code, Part II
CSA Std C22.2 No. 213-M1987 (R 2004)	-	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CSA Std C22.2 No. 25-1966 (R 2004)	-	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11	-	Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
CAN/CSA-C22.2 No. 60079-7:12	-	Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety "e"
CAN/CSA-C22.2 No. 60079-31:12	-	Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”
CAN/CSA C22.2 No. 18.3-04 (R 2009)	-	Conduit, Tubing, and Cable Fittings

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CAN/CSA-C22.2 No. 18-92	- Outlet Boxes, Conduit Boxes, and Fittings
UL Std No. 1203 (3rd Edition)	- Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/ISA 12.12.01:2007	- Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations
ANSI/UL 60079-0 (5th Edition 2009)	- Explosive Atmospheres – Part 0: Equipment - General Requirements
ANSI/UL 60079-7 (Ed 4th 2008)	- Explosive Atmospheres – Part 7: Equipment Protection by Increased Safety "e"
ANSI/ISA-60079-31 (12.10.03)-2015	- Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”

MARKINGS

- submittor's identification;
- model designation or equivalent;
- applicable hazardous locations ratings.
- cautions, warnings and additional markings as may be required by the applicable Standards;
- CSA Monogram with C/US Indicator, provided on the packaging.
- Reference to certification number (CSA 15. 70010389X), provided on the packaging.
- Class I, Zone 1, Ex/AEx e IIC, provided on the packaging.
- Class II, Zone 1, Ex/AEx ta IIIC Da
- Cable glands do not have to be marked with the serial number and the temperature class. The complete address is only stated on the packaging and in the instructions.
- The complete address is only stated on the packaging and in the instructions.
- The IP marking is only stated on the packaging and in the instructions.
- The instructions refer to the special requirements of the installation instructions
- Special conditions are mentioned in the installation sheet.
- Installation sheet and assembly instruction are attached in every packaging unit.

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".