



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1089457 (LR 22354-31)

Master Contract: 162037

Project: 2097505

Date Issued: 2009/02/17

Issued to: Barksdale, Inc.

3211 Fruitland Ave.
Los Angeles, CA 90058
USA

Attention: Mr. Alan Mason

The products listed below are eligible to bear the CSA Mark shown



Issued by: Scott Wallace

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 3238 01 - SWITCHES - Automatic - Pressure Type - For Hazardous Locations

PRODUCTS

Class I, Groups B, C, D; Class II, Groups E, F and G Encl. Type 4:

9671X, 9681X and 9692X Pressure Switch, contact ratings 11A/125 or 250V ac, 5A/30V dc; Encl Type 4X version available.

Model codes: 9671X-abb-c-dd-ee-*-options



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9671X = Basic Switch number

a = number of switches (**1** or **2**)

bb = Switch Type (**CC** = Silver contact, **GH** = Gold contact)

c = Seal Material (**None** = Viton, **T** = Teflon and **B** = Buna)

dd = Fitting Type (**None** = 1/4NPT Female, **P1** = 7/16-20 SAE Female (1/4 in tube), **P3** = 1/2NPT Female and **P4** = 1/2NPT Male) are standard options. **P2 & P5-P10** suffixes may be used to designate other thread forms.

ee = Housing option (**None** = All 316 SS (housing, conduit body, cover and external hardware) and **AL** = All Aluminum (housing, conduit body and cover))

options = Non-standard options: Wire length (**WXXX**) and (**QXXX**). The customer special designation (**QXXX**) is used to accommodate minor/multiple variations which could create a very long part number. These minor/multiple variations do not compromise Hazardous Location safety aspects (no holes will be drilled; no thinning of the walls of the enclosure; and the o-rings/gaskets will remain intact to maintain the Type 4 or Type 4X ratings). Some of the variations are wire color, wire length and customer requested markings such as a customers part number added to the product.

* May also include -K suffix for mounting holes and conduit flats.

Model codes: 9681X-abb-c-d-ee-ff-T-*-options

9681X = Basic Switch number

a = number of switches (**1** or **2**)

bb = Switch Type (**CC** = Silver contact, **GH** = Gold contact)

c = Adjustable Pressure range (**1** = 2 to 15psig, **2** = 5 to 150psig, **3** = 25 to 300psig and **4** = 50 to 500psig)

d = Seal Material (**None** = Viton and **B** = Buna)

ee = Fitting Type (**None** = 1/4NPT Female, **P1** = 7/16-20 SAE Female (1/4 in tube), **P3** = 1/2NPT Female and **P4** = 1/2NPT Male) are standard options. **P2 & P5-P10** suffixes may be used to designate other thread forms.

ff = Housing option (**None** = All 316 SS (housing, conduit body, cover and external hardware) and **AL** = All Aluminum (housing, conduit body and cover))

T = Wire Lock Feature for Adjustment Cover Screws

options = Factory Set Points (**SXXX**), Non-standard options: Wire length (**WXXX**) and (**QXXX**). The customer



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special designation (**QXXX**) is used to accommodate minor/multiple variations which could create a very long part number. These minor/multiple variations do not compromise Hazardous Location safety aspects (no holes will be drilled; no thinning of the walls of the enclosure; and the o-rings/gaskets will remain intact to maintain the Type 4 or Type 4X ratings). Some of the variations are wire color, wire length and customer requested markings such as a customers part number added to the product.

* May also include -K suffix for mounting holes and conduit flats.

Model codes: 9692X-abb-c-d-ee-ff-T-*-options

9692X = Basic Switch number

a = number of switches (**1** or **2**)

bb = Switch Type (**CC** = Silver contact, **GH** = Gold contact)

c = Adjustable Pressure range (**1** = 100 to 750psig, **2** = 150 to 1000psig, **3** = 400 to 3000psig, **4** = 700 to 5000psig, **5** = 1000 to 7500psig and **6** = 150 to 3000psig)

d = Seal Material (**None** = Viton, **E** = Ethylene Propylene and **B** = Buna)

ee = Fitting Type (**None** = 1/4NPT Female, **P1** = 7/16-20 SAE Female (1/4 in tube), **P3** = 1/2NPT Female and **P4** = 1/2NPT Male) are standard options. **P2 & P5-P10** suffixes may be used to designate other thread forms.

ff = Housing option (**None** = All 316 SS (housing, conduit body, cover and external hardware) and **AL** = All Aluminum (housing, conduit body and cover))

T = Wire Lock Feature for Adjustment Cover Screws

options = Factory Set Points (**SXXX**), Non-standard options: Wire length (**WXXX**) and (**QXXX**). The customer special designation (**QXXX**) is used to accommodate minor/multiple variations which could create a very long part number. These minor/multiple variations do not compromise Hazardous Location safety aspects (no holes will be drilled; no thinning of the walls of the enclosure; and the o-rings/gaskets will remain intact to maintain the Type 4 or Type 4X ratings). Some of the variations are wire color, wire length and customer requested markings such as a customers part number added to the product.

* May also include -K suffix for mounting holes and conduit flats.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II Groups E, F, and G Hazardous

Locations



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CSA Std C22.2 No. 14-95 - Industrial Control Equipment

CAN/CSA Std C22.2 No. 94-M91 - Special Purpose Enclosures

ANSI/ISA 12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems
and Flammable or Combustible Process Fluids

MARKINGS

Per Drawings: 250721, 250722, 250909, 250910, and 250924 are made from anodized (per MIL-A8625) aluminum sheet 24 gauge with 3M #467 adhesive backing. 250902 (serial #), and 250712 (conduit torque) are printed on .003" Mylar with adhesive backing.

250721, or 250910 (CSA labels):

- CSA Monogram
- Submitter's name and/or Master Contract Number 162037;
- Model series "9671X, 9681X or 9692X Series";
- Electrical ratings & Frequency;
- Hazardous Location designation;
- Minimum & Max ambient; $-20^{\circ}\text{C} \leq \text{Tamb.} \leq +40^{\circ}\text{C}$
- Statements "Dual Seal" (9681X and 9692X only) & "FACTORY SEALED LEADS"
- Enclosure: Type 4, or 4X

250909 (Model number label)

- Specific catalogue or model designation

A250902 (Serial number label)

- Serial Number, Date code or equivalent

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".



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2097505	2009/02/17	Update to report 1089457 to evaluate pressure switch models 9681X and 9692X to the requirements for "Duals Seals" of Std. ANSI/ISA 12.27.01-2003.
2032724	2008/10/10	Update Rpt.1089457 to include Dual Seal Marking per ISA 12.27.01;This quote assumes only one dual seal & explanation annunciation as required to be verified per clause 6.3.4.
1925606	2008/04/15	Dual Seal Project
1461838	2005/05/07	Revised construction of 96xxX Series of Pressure Switches
1575679	2004/08/24	Revised construction of 96xxX Series of Pressure Switches

History

1146039	2001/01/25	Revised construction of 9692X Model Pressure Switches
1089457	2000/05/25	Additional pressure range for 9692X Series Pressure Switches
-33	1998/08/20	Addition of 9671X and 9681X Pressure Switches.
-31	1997/10/28	Original Certification.