Certificate of Compliance

Certificate:	2461403	**Master Contract:**	176847
Project:	80219099	**Date Issued:**	2026-06-29
Issued to:	**Flowserve/PMV Automation AB** **Korta Gatan 9** **Solna, Stockholm County 171 54** **Sweden** **Attention:** Jonas Ferngren	**Issued by:**	*Bill Miller* Bill Miller

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

PRODUCTS

Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 84 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A,B,C,D T6...T4
Class II, Division 1, Groups E, F, G T6
Class III, Division 1, T6

Class I, Zone 0 AEx ia IIC T6…T4 Ga
Ex ia IIC T6…T4 Ga

Valve Position Indicator

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Certificate: 2461403 **Master Contract**: 176847

Project: 80219099 **Date Issued**: 2026-06-29

Model(s)
Model PS/PM/PN/PG Ultraswitch

Model PS/PM/PN/PG Ultraswitch with model code ab-cc-defgg-hh-ijkl, or Alternative Model Code a b c d e f g h, input rated 28Vdc max, 52mA max, 169mW max, Type 4X / IP66 enclosure. Intrinsically Safe with below entity parameters when installed as per Control Drawing RA-2-NA.

MODEL DESIGNATIONS

ABCCDEFGG-HH-IJKL where:

A = Brand sticker (Any single character – Not Safety Critical)

B = Shaft *(specifies shaft interface– Not Safety Critical)*

CC = Connections (cable entry)

PS = Resin Housing 1/2" NPT
PM = Resin Housing M20x1,5
PN = Resin Housing ¾" NPT
PG = Resin Housing M25x1,5

D = Number of open cable entries

(1 , 2 or 3 entries)

E = Indicator option *(Two major options : Flat cover and Dome indicator)*

1 = Flat Cover (No Dome)
Any Letter = Polycarbonate Dome Indicator

F = Qty of switches

(0 to 4 switches allowed)

GG = Switch options *(only CSA related switch options included)*

Switch Code	MFG / Model	Ratings / Entity Parameters				
		U_i (V)	I_i (mA)	P_i (mW)	C_i (nF)	L_i (µH)
FE	IFR NS5003	15	50	120	80	110
M1	Honeywell V7-1C13D8-201	28	45	120	1	1
MG	Honeywell V7-1D19D8-201	28	45	31.5	1	1
N2	Pepperl-Fuchs NJ2-12GK-N	16	52	169	45	50
N8	Pepperl-Fuchs NJ2-V3-N	16	52	169	40	50
NB	Pepperl-Fuchs NJ2-12GM-N	16	52	169	30	50

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NC	Pepperl-Fuchs NJ4-12GM-N	16	52	169	45	50
NE	Pepperl-Fuchs NCB2-12GM35-N0	16	52	169	90	100
NF	Pepperl-Fuchs NCN4-12GM35-NO	16	52	169	95	100
NG	Pepperl-Fuchs NJ5-11-N-G	16	52	169	45	50
NH	Pepperl-Fuchs NCB4-12GM40-NO	16	52	169	120	50
NL	Pepperl-Fuchs NCB2-V3-NO	16	52	169	100	100
NP	Pepperl-Fuchs SJ3.5N	16	52	169	50	250
NQ	Pepperl-Fuchs NJ4-12GK-N	16	52	169	45	50
NV	Pepperl-Fuchs NJ2-11-N-G	16	52	169	30	50
P4	Aleph PS-6132	28	45	31.5	1	1
P5	Hamlin 59150-3-S-02-A	28	45	31.5	1	1
PE	Flowserve Sabre IV SPDT PRS-30	28	45	31.5	1	1
PT	Flowserve Phazer BRS IV SPST PRS-10/10m	28	45	31.5	1	1

HH = Certificate *(only CSA related codes included)*
27 = FM IS and CSA IS (Div. 1)

I = Analog output *(only CSA related analog output options included)*
0 = None

J = Wiring options *(only CSA related codes included)*
0 = Standard
4 = Weidmueller Terminals Special AKZ
H = Heavy Duty Terminal Block

K = Minimum extra terminals *(0-16 extra terminals)*

L = Special options *(only CSA related codes included)*
0 = None
V = Viton O-Rings

Or Alternative Model Code
A B C D E F G H

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Where:

A = **Brand sticker** (Any single character – Not Safety Critical)

B = **Rating Selection** *(only CSA related codes included)*
N = North American Standards, NPT cable entries

C = **Housing selection** *(only CSA related codes included)*
P = Resin

D = **Indicator option**
1 = Flat Cover (No Dome)
2-6 = Polycarbonate Dome Indicator

E = **Language** (Any single character – Not Safety Critical)

F = **Switch Type**
L = Phazer BRS
S = P&F NJ2-V3-N

G = **Area Selection** *(only CSA related codes included)*
2 = Intrinsically Safe

H = **Mounting Selection**
N = NAMUR Configuration, Namur Shaft
STD = Non-NAMUR configuration, "Standard Shaft"

Class I, Division 2, Groups A,B,C,D T6…T4
Class II, Division 2, Groups F, G T6
Class III T6

Model(s)
Model PS/PM/PN/PG Ultraswitch

Model PS/PM/PN/PG Ultraswitch with model code ab-cc-defgg-hh-ijkl, or Alternative Model Code a b c d e f g h, rated 28Vdc max, 52mA max, 169mW max, Type 4X / IP66 enclosure. Nonincendive Field Wiring with below NIFW parameters when installed as per Control Drawing RA-2-NA.

MODEL DESIGNATIONS
ABCCDEFGG-HH-IJKL where:

A = **Brand sticker** (Any single character – Not Safety Critical)

B = **Shaft** *(specifies shaft interface– Not Safety Critical)*

CC = **Connections (cable entry)**
PS = Resin Housing 1/2" NPT

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PM = Resin Housing M20x1,5
PN = Resin Housing ¾" NPT
PG = Resin Housing M25x1,5

D = Number of open cable entries
(1 , 2 or 3 entries)

E = Indicator option *(Two major options : Flat cover and Dome indicator)*
1 = Flat Cover (No Dome)
Any Letter = Polycarbonate Dome Indicator

F = Qty of switches
(0 to 4 switches allowed)

GG = Switch options *(only CSA related switch options included)*

Switch Code	MFG / Model	Ratings / Entity Parameters				
		U_i (V)	I_i (mA)	P_i (mW)	C_i (nF)	L_i (µH)
N8	Pepperl-Fuchs NJ2-V3-N	16	52	169	40	50
NB	Pepperl-Fuchs NJ2-12GM-N	16	52	169	30	50
NP	Pepperl-Fuchs SJ3.5N	16	52	169	50	250
NQ	Pepperl-Fuchs NJ4-12GK-N	16	52	169	45	50
P5	Hamlin 59150-3-S-02-A	28	45	31.5	1	1
PE	Flowserve Sabre IV SPDT PRS-30	28	45	31.5	1	1
PP	Flowserve Phazer IV SPDT PRS-20/20m	28	45	31.5	1	1
PT	Flowserve Phazer BRS IV SPST PRS-10/10m	28	45	31.5	1	1

HH = Certificate *(only CSA related codes included)*
28 = FM NI and CSA NI (Div. 2)

I = Analog output *(only CSA related analog output options included)*
0 = None

J = Wiring options *(only CSA related codes included)*
0 = Standard
4 = Weidmueller Terminals Special AKZ
H = Heavy Duty Terminal Block

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K = **Minimum extra terminals** *(0-16 extra terminals)*

L = **Special options** *(only CSA related codes included)*
0 = None
V = Viton O-Rings

Or Alternative Model Code
A B C D E F G H

Where:

A = **Brand sticker** (Any single character – Not Safety Critical)

B = **Rating Selection** *(only CSA related codes included)*
N = North American Standards, NPT cable entries

C = **Housing selection** *(only CSA related codes included)*
P = Resin

D = **Indicator option**
1 = Flat Cover (No Dome)
2-6 = Polycarbonate Dome Indicator

E = **Language** (Any single character – Not Safety Critical)

F = **Switch Type**
H = Phazer IV SPDT
L = Phazer BRS
S = P&F NJ2-V3-N

G = **Area Selection** *(only CSA related codes included)*
1 = Non-Incendive Field Wiring

H = **Mounting Selection**
N = NAMUR Configuration, Namur Shaft
STD = Non-NAMUR configuration, "Standard Shaft"

APPLICABLE REQUIREMENTS

Standards Used	Description
CSA C22.2 No. 61010-1-12,UPD1:2015, UPD2:2016, AMD1:2018, UPD3:2023	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements - Third Edition; Update No. 1: July 2015; Update No. 2: April 2016; Update No. 3: June 2023
CSA C22.2 No. 94.2:20 - Third Edition	Enclosures for electrical equipment, environmental considerations

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Standards Used	Description
CSA C22.2 No. 60079-0:19	Explosive atmospheres — Part 0: Equipment -General requirements
CAN/CSA C22.2 No. 60079-11:14 - Second Edition	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”
CSA C22.2 No. 213-17 - Third Edition - Including Update No. 3 - April 2021	Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations
ANSI/UL 61010-1:2012 - Third Edition - Including revisions through June 6, 2023	Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
ANSI/UL 50E, 3rd Edition	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 60079-0-2020 Seventh Edition	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11-2018 (R2023) Sixth Edition	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety 'i'
ANSI/UL 913-2022 Eighth Edition	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
ANSI/UL 121201:2017 - Ninth Edition - Including Revisions Through April 1, 2021	UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

Markings

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The label material type is Zebra Z-Xtreme 4000T silver and the adhesive label testing was waived as it a UL recognized label material for both US and Canada. Label is suitable for adhesion to Polyamide with a temperature range of -40 °C ≤ Ta ≤ +80 °C, Indoor/Outdoor. The material is to be printed on using a thermal transfer ribbon listed on the UL yellow card under PGJI2/8.MH15633.
As alternate a stainless-steel nameplate with thickness of 0.5-1mm secured by screws on the enclosure.

The following marking information appears on each label:

- Manufacturer’s name: “Flowserve/PMV Automation AB”, or CSA Master Contract Number “176847”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.

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- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, with or without the “C” and “US” indicators, as shown on the Certificate of Conformity.
- The designation “CSA 13CA2461403X”
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, and the word “Groups” may be abbreviated “GRP” or “GP”.
- Method of Protection markings (Ex – markings): As specified in the PRODUCTS section, above. The word “Class” may be abbreviated “CL”, the word “Zone” may be abbreviated “ZN”
- Temperature code: As specified in the PRODUCTS section, above.
  - Class II and Class III markings may omit T-Code as maximum temperature does not exceed 100 °C.
- The manufacturing location shall be identified if the equipment can be produced in more than one facility.
- The following words:
  - “INTRINSICALLY SAFE” and “SECURITE INTRINSEQUE”, or “IS” or “I.S.” or the symbol “Ex ia”
  - “WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY”, and “AVERTISSEMENT : LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE”
  - “Install per drawing RA-2-NA”
- The following words, or suitable equivalent, in English and French:
  - “WARNING – EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED”, and “AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION”
  - “WARNING – EXPLOSION HAZARD. DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.”, and “AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS DÉBRANCHER PENDANT QUE LE CIRCUIT EST SOUS TENSION OU À MOINS QUE L’EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.”
  - “WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS”, and “AVERTISSEMENT – RISQUE D’EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L’EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES”

Conditions Of Acceptability

1. The UltraSwitch Position Indicator is marked with the following warning marking: "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS".

2. Temperature Classes apply as follows:

Switch Code (GG)	Ambient Temperature Range			
	T6	T5	T4	Class II / Class III
FE	-20 °C ≤ Ta ≤ +70 °C	-	-	-25 °C ≤ Ta ≤ +60 °C
M1	-40 °C ≤ Ta ≤ +45 °C	-40 °C ≤ Ta ≤ +60 °C	-40 °C ≤ Ta ≤ +78 °C	
MG	-40 °C ≤ Ta ≤ +45 °C	-40 °C ≤ Ta ≤ +60 °C	-40 °C ≤ Ta ≤ +78 °C	
N2	-25 °C ≤ Ta ≤ +51 °C	-25 °C ≤ Ta ≤ +66 °C	-25 °C ≤ Ta ≤ +80 °C	
N8	-25 °C ≤ Ta ≤ +45 °C	-25 °C ≤ Ta ≤ +60 °C	-25 °C ≤ Ta ≤ +80 °C	
NB	-25 °C ≤ Ta ≤ +62 °C	-25 °C ≤ Ta ≤ +77 °C	-25 °C ≤ Ta ≤ +80 °C	
NC	-25 °C ≤ Ta ≤ +49 °C	-25 °C ≤ Ta ≤ +64 °C	-25 °C ≤ Ta ≤ +67 °C	
NE	-25 °C ≤ Ta ≤ +62 °C	-25 °C ≤ Ta ≤ +77 °C	-25 °C ≤ Ta ≤ +80 °C	
NF	-25 °C ≤ Ta ≤ +62 °C	-25 °C ≤ Ta ≤ +77 °C	-25 °C ≤ Ta ≤ +80 °C	
NG	-25 °C ≤ Ta ≤ +42 °C	-25 °C ≤ Ta ≤ +57 °C	-25 °C ≤ Ta ≤ +80 °C	
NH	-25 °C ≤ Ta ≤ +51 °C	-25 °C ≤ Ta ≤ +66 °C	-25 °C ≤ Ta ≤ +74 °C	
NL	-25 °C ≤ Ta ≤ +45 °C	-25 °C ≤ Ta ≤ +60 °C	-25 °C ≤ Ta ≤ +80 °C	
NP	-25 °C ≤ Ta ≤ +45 °C	-25 °C ≤ Ta ≤ +60 °C	-25 °C ≤ Ta ≤ +80 °C	

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NQ	-25 °C ≤ Ta ≤ +51 °C	-25 °C ≤ Ta ≤ +66 °C	-25 °C ≤ Ta ≤ +80 °C	
NV	-25 °C ≤ Ta ≤ +62 °C	-25 °C ≤ Ta ≤ +77 °C	-25 °C ≤ Ta ≤ +80 °C	
P4	-	-	-40 °C ≤ Ta ≤ +40 °C	
P5	-	-	-40 °C ≤ Ta ≤ +60 °C	
PE	-40 °C ≤ Ta ≤ +55 °C	-40 °C ≤ Ta ≤ +70 °C	-40 °C ≤ Ta ≤ +80 °C	
PP	-40 °C ≤ Ta ≤ +55 °C	-40 °C ≤ Ta ≤ +70 °C	-40 °C ≤ Ta ≤ +80 °C	
PT	-40 °C ≤ Ta ≤ +75 °C	-40 °C ≤ Ta ≤ +80 °C	-	

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Certificate: 2461403 **Master Contract**: 176847

Project: 80219099 **Date Issued**: 2026-06-29

Notes:

Products certified under Class(es) C225804, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

Certificate: 2461403 **Master Contract:** 176847

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
80219099	2026-06-29	Evaluation for update to cCSAus report 2461403 to update CSA C22.2 No. 157-M1992 to CAN/CSA C22.2 No. 60079-0:19 and CAN/CSA C22.2 No 60079-11:14, C22.2 No. 213-M1987 to CAN/CSA C22.2 No. 213-17, CSA Standard C22.2 No 142 to CAN/CSA C22.2 No. 61010-1-12+ UPD1:2015, UPD2:2016, AMD1-18 (R2022), UPD3:2023, UPD4:2024, CSA Standard C22.2 No 94 to CAN/CSA C22.2 No. 94.2:20 Third Edition, FM – 3610 to ANSI/UL 60079-0-2020 (R2024)Seventh Edition and ANSI/UL 60079-11-2018 (R2023) Sixth Edition, FM – 3611 to ANSI/UL 121201-2021 Ninth Edition, FM – 3810 to ANSI/UL 61010-1-2024 Third Edition. Removal of FM – 3600, CSA Standard C22.2 No 25, CSA C22.2 No. 0-M91, and CSA C22.2 No. 60529-05. Addition of ANSI/UL 50E-2020 Third Edition and ANSI/UL 913-2022 Eighth Edition. These updates satisfy Hazardous Location Notices 23, 25a, and 28. This report also includes new switch codes added and addresses FIR 262291-20250829.
70026149	2015-04-01	Update report typo regarding the PE SPDT Proximity switch which should read rating 24 VDC 1 Amp- 120 VAC, 1 Amp
2604724	2013-03-15	Update to report 2461403 to upgrade to the cCSAus marking and the addition of the PE switch to the Div.2 listings.
2461403	2013-02-13	Model Ultraswitch PS/PM/PN with prefixes and suffixes, original certification.

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