FM Approvals
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***UltraSwitch™ PS/PM Switch Box a-b-c-d-e-f-g-27-i-j-k-l***
IS/ I, II, III / 1 / ABCDEFG / T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; Entity – RA-2
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Shaft; Single letter or number (not relevant to safety)
c = Connections; PS (1/2" NPT), PM (M20), PN (3/4" NPT) or PG (M25)
d = Number of open cable entries; 1, 2, or 3
e = Indicator option; Single letter or number (not relevant to safety)
f = Number of switches; 0, 1, 2 , 3, or 4
g = Switch options; MG, P4, P5, PE, PT, N8, NP, NQ, NR, NS or NT
i = Analog output; 0
j = Wiring options; 0, 1, 2, 3, 4, or H
k = Minimum extra terminals; 0 thru 16
l = Special options; 0 or V

***UltraSwitch™ PS/PM Switch Box a-b-P-d-e-f-2-h***
IS/ I, II, III / 1 / ABCDEFG / T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; Entity – RA-2
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Connections; C (1/2" NPT) or N (3/4" NPT)
d = Indicator option; Single letter or number (not relevant to safety)
e = Language
f  = Switch type; B or S
h = Mounting selection; Single or triple letter or number (not relevant to safety)

***UltraSwitch™ PS/PM Switch Box a-b-c-d-e-f-g-28-i-j-k-l***
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 60°C; IP66; Type 4X; NIFW; RA-2
S/II/2/EFG/T6 -40°C ≤ Ta ≤ 60°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 60°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Shaft; Single letter or number (not relevant to safety)
c = Connections; PS (1/2" NPT), PM (M20), PN (3/4" NPT) or PG (M25)

To verify the availability of the Approved product, please refer to www.approvalguide.com

d = Number of open cable entries; 1, 2, or 3
e = Indicator option; Single letter or number (not relevant to safety)
f = Number of switches; 0, 1, 2 , 3, or 4
g = Switch options; P4, P5, PE, PP, PT or N8
i = Analog output; 0
j = Wiring options; 0, 1, 2, 3, 4, or H
k = Minimum extra terminals; 0 thru 16
l = Special options; 0 or V

### UltraSwitch™ PS/PM Switch Box a-b-P-d-e-f-1-h
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 60°C; IP66; Type 4X; NIFW; RA-2
S/II/2/EFG/T6 -40°C ≤ Ta ≤ 60°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 60°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Connections; C (1/2" NPT) or N (3/4" NPT)
d = Indicator option; Single letter or number (not relevant to safety)
e = Language
f = Switch type; B, K or S
h = Mounting selection; Single or triple letter or number (not relevant to safety)

### UltraSwitch™ PS/PM Switch Box a-b-c-d-e-f-g-28-i-j-k-l
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; NIFW; RA-2
S/II/2/EFG/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Shaft; Single letter or number (not relevant to safety)
c = Connections; PS (1/2" NPT), PM (M20), PN (3/4" NPT) or PG (M25)
d = Number of open cable entries; 1, 2, or 3
e = Indicator option; Single letter or number (not relevant to safety)
f = Number of switches; 0, 1, 2 , 3, or 4
g = Switch options; PE, PP or PT
i = Analog output; 0
j = Wiring options; 0, 1, 2, 3, 4, or H
k = Minimum extra terminals; 0 thru 16
l = Special options; 0 or V

### UltraSwitch™ PS/PM Switch Box a-b-P-d-e-f-1-h
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; NIFW; RA-2
S/II/2/EFG/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Connections; C (1/2" NPT) or N (3/4" NPT)
d = Indicator option; Single letter or number (not relevant to safety)
e = Language
f = Switch type; B or K
h = Mounting selection; Single or triple letter or number (not relevant to safety)

### UltraSwitch™ PS/PM Switch Box a-b-c-d-e-f-g-60-i-j-k-l
IS/ I, II, III / 1 / ABCDEFG / T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; Entity – RA-2
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; NIFW; RA-2

To verify the availability of the Approved product, please refer to www.approvalguide.com

S/II/2/EFG/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Shaft; Single letter or number (not relevant to safety)
c = Connections; PS (1/2" NPT), PM (M20), PN (3/4" NPT) or PG (M25)
d = Number of open cable entries; 1, 2, or 3
e = Indicator option; Single letter or number (not relevant to safety)
f = Number of switches; 0, 1, 2 , 3, or 4
g = Switch options; MG, P4, P5, PE, PP, PT, N8, NP, NQ, NR, NS or NT
i = Analog output; 0
j = Wiring options; 0, 1, 2, 3, 4, or H
k = Minimum extra terminals; 0 thru 16
l = Special options; 0 or V

*UltraSwitch™ PS/PM Switch Box a-b-P-d-e-f-3-h*
IS/ I, II, III / 1 / ABCDEFG / T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; Entity – RA-2
NI/I/2/ABCD/T*; -40°C ≤ Ta ≤ 80°C; IP66; Type 4X; NIFW; RA-2
S/II/2/EFG/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
S/III/1, 2/T6 -40°C ≤ Ta ≤ 80°C; IP66; Type 4X
*See Control Drawing

a = Brand sticker; Single letter or number (not relevant to safety)
b = Connections; C (1/2" NPT) or N (3/4" NPT)
d = Indicator option; Single letter or number (not relevant to safety)
e = Language
f  = Switch type; B, K or S
h = Mounting selection; Single or triple letter or number (not relevant to safety)

Equipment Ratings:

Intrinsically Safe for Class I,II and III, Division 1, Groups A, B, C, D, E, F and G; Nonincendive for Class I, Division 2, Groups A, B, C and D Hazardous (classified) locations per Control Drawing. Temperature Class T4, T5 or T6. See Control Drawing RA-2 for details. Suitable for Class II, Division 2 Groups E, F and G; Suitable for Class III, Division 1 and 2 Indoor and Outdoor (Type 4X and IP66) Hazardous (classified) locations. Temperature Class T6.

FM Approved for:

Palmstierna International AB
SE-171 54 Solna,  Sweden

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

| | |
|---|---|
| Class 3600 | 2011 |
| Class 3610 | 2010 |
| Class 3611 | 2004 |
| Class 3810 | 2005 |
| ISA-82.02.01 | 2004 |
| ANSI/IEC 60529 | 2004 |
| NEMA 250 | 2003 |

Original Project ID: 0003043047          Approval Granted: March 26, 2012

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---|---|---|---|
| 120402 | May 7, 2012 | | |
| 3046224 | September, 17 2012 | | |
| 3048055 | September 24, 2013 | | |

FM Approvals LLC

*J.E. Marquedant* (signature)

J.E. Marquedant
Group Manager, Electrical

24 September 2013

Date