



CANADIAN STANDARDS ASSOCIATION



Certification Record

CUSTOMER	CLASS	FILE
Cleveland Controls Incorporated 1111 Brookpark Road Cleveland OH 44109 USA	3231-02 SWITCHES-Automatic - Pressure Type Refer to class description for program details.	018754_0_000

- Pressure-operated (air) switches, Models DFSH-CO, DFSL-CO, FS-ABO, FS-BO, FSH-CO, FSH-DO, FSL-CO and FSL-DO, electrical rating 300VA pilot duty at 115, 208, 230 and 277V; 10A* at 277V, noninductive.
- Pressure-operated switches, Models AFS-A, -AO, -DAO, -145, -148, -150, -154, -155, -156, -159, -163, -165, -170, -173, -175, -179, -180, -181, -184, -186, -187, -188, -190, -191, -195, -202, -203, -204, -208, -209, -210, -211, -212, -213, -214, -216, -218, -219, -222, -223, -225, -226, -227, -228, -232, -234, -235, -236, -237, -238, -239, -240, -242, -244, -246, -247, -249, -252, -256, -257, -259, -262, -264, -265, -266, -268, -270, -271, -272, -273, -275, -279, -281, -282, -283, -284, -285, -286, -287, -288, -289, -291, -293, -294, -296, -298, -299, -398, -400, -403, -405, -409, -410, -414, -415, -417, -418, -421, -423, -425, -427, -428 to -438, -440, -441, -442, -445, -447, -449, -450, -451, -452, -477, -492, -493, -941, -950, -951, -960, -961, -970, -971, -975, -976, -980, -981, -984; DFS-221, -223, -229, -231, -243, -295, -296, -297, -301, -423, -435, -436, -448, -458, DFS-HCO, -LCO, -267, -292, -296, -411; FS-BO, -CO, -BBO, -HDO, -LDO, -179, -412, -416, -751, ANA-101, -102, FS-CO-114, -171, -172, -179, -180, -185, -224, -435, -106, -107, -108, -109, -110, -1000; ANA-100, -103 through -500, -1000; PSG-100, -102, -103, -104, and -105, rated 300VA pilot duty, 120 to 277V ac; 10A* noninductive 100,000 ops, 0 to 277V ac; AFS-233-34, AFS-233-35, rated 120V ac, 8 FLA, 48 LRA (6000 ops), -AFS-460, -460-DSS, -461, rated 15A, 120 to 480V ac, 1/4 hp at 120V ac, 1/2 hp at 240V ac, 1/2A at 120V dc, 1/4A at 240V dc.
- Pressure-operated switches, Model DFS-302 rated 24Vdc, 30mA.
- Pressure-operated (air) switches, Models DDP-100, -103, -104, -105, -106, -109, to -200, rated 115 to 277V ac, 300VA pilot duty; 277V ac or less, 10A (non-ind.), (100,000 ops).
- Pressure or vacuum operated switches, Models LD-B, PD-B, VS-A, SLD and SPD (with suffixes) rated 125VA pilot duty at 115/230V ac; 10A* at 277V ac non-ind.
- Air pressure or vacuum operated switches, Model RSS (with suffixes), rated 5A, resistive at 28V dc; 5A resistive at 120-277V ac; 120 VA pilot duty at 120V ac.

* On switches that employ the Microswitch, Part No. BZ-TRW8435 Series snap switches, the noninductive rating is 15A, 0 to 277V ac.

Notes:

1. The controls are Certified for component use only.
2. Open type devices are for use in other equipment where the suitability of the combination is to be determined by the Canadian Standards Association.
3. Type designations have additional suffixes to indicate pressure setting.

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CANADIAN STANDARDS ASSOCIATION



Certification Record

CUSTOMER	CLASS	FILE
Cleveland Controls Incorporated 1111 Brookpark Road Cleveland OH 44109 USA	3231-82 SWITCHES-Automatic - Pressure Type - Certified to US Standards Refer to class description for program details.	018754_0_000

- Pressure-operated (air) switches, Models DFSH-CO, DFSL-CO, FS-ABO, FSBO, FSH-CO, FSH-DO, FSL-CO and FSL-DO, electrical rating 300VA pilot duty at 115, 208, 230 and 277V; 10A* at 277V, noninductive.
- Pressure-operated switches, Models AFS-A, -AO, -DAO, -145, -148, -150, -154, -155, -156, -159, -163, -165, -170, -173, -175, -179, -180, -181, -184, -186, -187, -188, -190, -191, -195, -202, -203, -204, -208, -209, -210, -211, -212, -213, -214, -216, -218, -219, -222, -223, -225, -226, -227, -228, -232, -234, -235, -236, -237, -238, -239, -240, -242, -244, -246, -247, -249, -252, -256, -257, -259, -262, -264, -265, -266, -268, -270, -271, -272, -273, -275, -279, -281, -282, -283, -284, -285, -286, -287, -288, -289, -291, -293, -294, -296, -298, -299, -398, -400, -403, -405, -409, -410, -414, -415, -417, -418, -421, -423, -425, -427, -428 to -438, -440, -441, -442, -445, -447, -449, -450, -451, -452, -477, -492, -493, -941, -950, -951, -960, -961, -070, -971, -975, -976, -980, -981, -984; DFS-221, -223, -229, -231, -243, -295, -296, -297, -301, -423, -435, -436, -448, -458, DFS-HCO, -LCO, -267, -292, -296, -411; FS-BO, -CO, -BBO, -MDO, -LDO, -179, -412, -416, -751, ANA-101, -102, FS-CO-114, -171, -172, -179, -180, -185, -224, -435, -106, -107, -108, -109, -110, -1000; ANA-100, -103 through -500, -1000; PSG-100, -102, -103, -104, and -105, rated 300VA pilot duty, 120 to 277V ac; 10A* noninductive 100,000 ops, 0 to 277V ac; AFS-233-34, AFS-233-35, rated 120V ac, 8 FLA, 48 LRA (6000 ops), AFS-460, -461, rated 15A, 120 to 480V or 1/4 hp at 120V ac, 1/2 hp at 240V ac, 1/2A at 120V dc, 1/4A at 240V dc.
- Pressure-operated switches, Model DFS-302 rated 24Vdc, 30mA.
- Pressure-operated (air) switches, Models DDP-100, -103, -104, -105, -106, -109, to -200, rated 115 to 277V ac, 300VA pilot duty; 277V ac or less, 10A (nonind.), (100,000 ops).
- Pressure or vacuum operated switches, Models LD-B, PD-B, VS-A, SLD and SPD (with suffixes) rated 125VA pilot duty at 115/230V ac; 10A* at 277V ac non-ind.

* On switches that employ the Microswitch, Part No. BZ-TRW8435 Series snap switches, the noninductive rating is 15A, 0 to 277V ac.

Notes:

1. The controls are Certified for component use only.
2. Open type devices are for use in other equipment where the suitability of the combination is to be determined by the Canadian Standards Association.
3. Type designations have additional suffixes to indicate pressure setting.

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CANADIAN STANDARDS ASSOCIATION



Certification Record

CUSTOMER	CLASS	FILE
Cleveland Controls Incorporated 1111 Brookpark Road Cleveland OH 44109 USA	4813-02 TEMPERATURE-INDICATING AND REGULATING EQUIPMENT-Other Than Appliance Type.	018754_0_000

THE FOLLOWING MODELS HAVE BEEN INVESTIGATED TO CSA C22.2 No. 0-M91 General Requirements - Canadian electric Code, Part II (R2001) CSA C22.2 No. 24-93 Temperature-Indicating and Regulating Equipment (Update 2, Aug 2008).

Air pressure or vacuum operated switches:

- Model RSS (with suffixes), rated 5A, resistive at 28V dc; 5A resistive at 120-277V ac; 120 VA pilot duty at 120V ac.
- Model DNS2, NS2, followed by -0000 through -9999, followed by -00 through -99. SPDT or SPST; 5 amps resistive @ 120 to 277 VAC; 5 amps resistive @ 24 VAC; 28 VA Pilot Duty @ 24 VAC; 25 VA Pilot Duty @ 120 VAC; -40°F to 190°F

Notes:

1. Open type devices are certified for use in other equipment where the suitability of the combination is to be determined by CSA International.
2. The attachment of leads to quick-connect terminals shall comply with the requirements regarding temperature and securedness applicable to the class of equipment involved. These terminals are not acceptable for field wiring. The terminals are intended for copper conductors only. If aluminum wiring is used, the suitability of this wiring shall be determined in the end-use application.
3. The switch ratings specified above under the heading ratings shall not be exceeded.
4. For use in ambient temperatures up to 81.7°C (179°F), the switches shall be wired using conductors with a temperature rating of at least 90°C. Above 81.7°C (179°F) to 87.7°C (190°F) wiring shall be rated at least 105°C (221°F).
5. The switches are to be mounted with the diaphragm in a vertical plane. The suitability of the mounting bracket or other mounting means shall be determined in the end-use application.
6. The suitability of the connector for the air line connections shall be determined in the end-use application.
7. The complete model number shall be indicated in the end-use application report. If certain features such as the switch type (SPDT, SPST, NO, NC), connector type are considered important in its operation, they should be described in the end-use report.
8. NS2 switch maximum operating temperature must be verified in the end application and must not be exceeded.

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Certification Record

CUSTOMER	CLASS	FILE
Cleveland Controls Incorporated 1111 Brookpark Road Cleveland OH 44109 USA	4813-82 TEMPERATURE-INDICATING AND REGULATING EQUIPMENT-Other Than Appliance Type - Certified to US Standards	018754_0_000

THE FOLLOWING MODELS HAVE BEEN INVESTIGATED TO UL Std. No. UL353
 Limit Controls (5th Ed September 23, 1994)

Air pressure or vacuum operated switches:

- Model RSS (with suffixes), rated 5A, resistive at 28V dc; 5A resistive at 120-277V ac; 120 VA pilot duty at 120V ac.
- Model DNS2, NS2, followed by -0000 through -9999, followed by -00 through -99.
- SPDT or SPST; 5 amps resistive @ 120 to 277 VAC; 5 amps resistive @ 24 VAC; 28 VA Pilot
- Duty @ 24 VAC; 25 VA Pilot Duty @ 120 VAC; -40°F to 190°F

Notes:

1. Open type devices are certified for use in other equipment where the suitability of the combination is to be determined by CSA International.
2. The attachment of leads to quick-connect terminals shall comply with the requirements regarding temperature and securedness applicable to the class of equipment involved. These terminals are not acceptable for field wiring. The terminals are intended for copper conductors only. If aluminum wiring is used, the suitability of this wiring shall be determined in the end-use application.
3. The switch ratings specified above under the heading ratings shall not be exceeded.
4. For use in ambient temperatures up to 81.7°C (179°F), the switches shall be wired using conductors with a temperature rating of at least 90°C. Above 81.7°C (179°F) to 87.7°C (190°F) wiring shall be rated at least 105°C (221°F).
5. The switches are to be mounted with the diaphragm in a vertical plane. The suitability of the mounting bracket or other mounting means shall be determined in the enduse application.
6. The suitability of the connector for the air line connections shall be determined in the end-use application.
7. The complete model number shall be indicated in the end-use application report. If certain features such as the switch type (SPDT, SPST, NO, NC), connector type are considered important in its operation, they should be described in the end-use report.
8. NS2 switch maximum operating temperature must be verified in the end application and must not be exceeded.

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