



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1752327

Master Contract: 152235

Project: 2268849

Date Issued: 2010/03/24

Issued to: Magnetrol International Inc.

5300 Belmont Rd
Downers Grove, IL 60515
USA
Attention: Paul Snider

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



Ron Wachowicz, C.E.T.

Issued by: Ron Wachowicz, C.E.T.

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div 1, Groups B, C, and D; Class II, Div 1, Groups E, F and G; Class III, Div 1; Type 4X:

Echotel Ultrasonic Switches, Model 960-58Ax-03x w/integral probe 9a1-bcde-fgh; input supply 39 Vdc max, 25 mA max; Max Ambient 71 Deg C; Temp. Code T6; IP66. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2, 3,4,B,C, or D; d = 1,2,3,4,5, A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 961-xxxx-0xx/9a1-bcde-fgh w/integral probe; or Transmitter, Model 961-xxxx-1xx w/remote probe, Model 9a1-bcde-fgh; input supply 12-35 Vdc, 25 mA max; or 100-265 Vac, 50-60 Hz, 50 mA; relay rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T6; IP66. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5, A,B,C, D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 962-xxxx-0xx/9a2-bcdA-efg w/integral probe; or Transmitter, Model 962-xxxx-1xx w/remote probe, Model 9a2-bcdA-efg; input supply 12-35 Vdc, 25 mA max; or 100-265 Vac, 50-60 Hz, 50 mA; relay contact rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T6; IP66. Single Seal, where a= A or M; b = A,K or P; c = 1,2,3,4,B,C or D; d = 1,2,3,4,5, A,B,C, D or E; efg = 005 to 130 inches (13 to 330 cm). MWP rated up to a maximum of 1500 PSI. Process Temperature range -40°C to +163°C.



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Note: The MWP and Temperature are dependant on the model configuration. Specific MWP and Temperature information are permanently marked on the nameplate when configuration details are known.

Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups E, F and G; Class III; Type 4X:

Echotel Ultrasonic Switches, Model 940-7abc-def w/integral probe; input supply 12-35 Vdc, 25 mA max; relay contact rated 30 Vdc, 1 A; Max Ambient 71 Deg C; Temp. Code T4; IP66. Single Seal, where ab = 11,22,23,33 or 43; c = E or M; def = 1 to 100 inches (3 to 250 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature rated up to a maximum of 85°C.

Echotel Ultrasonic Switches, Model 941-1abc-def w/integral probe; input supply 12-35 Vdc, 25 mA max; Max Ambient 71 Deg C; Temp. Code T4; IP66. Single Seal, where ab = 11,22,23,33 or 43; c = E or M; def = 1 to 100 inches (3 to 250 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature rated up to a maximum of 85°C.

Echotel Ultrasonic Switches, Model 960-58Ax-030 or 031 w/integral probe 9a1-bcde-fgh; input supply 39 Vdc max, 25 mA max; Max Ambient 71 Deg C; Temp. Code T4; IP66. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5,A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 960-58Ax-074 or 075 w/integral probe 9a1-bcde-fgh; input supply 39 Vdc max, 25 mA max; Max Ambient 71 Deg C; Temp. Code T4; IP66/IP67. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5,A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 961-xxxx-0xx/9a1-bcde-fgh w/integral probe; or Transmitter, Model 961-xxxx-1xx w/remote probe, Model 9a1-bcde-fgh; input supply 12-35 Vdc, 25 mA max; or 100-265 Vac, 50-60 Hz, 50 mA; relay contact rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T4; IP66. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5,A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 962-xxxx-0xx/9a2-bcdA-efg w/integral probe; or Transmitter, Model 962-xxxx-1xx w/remote probe, Model 9a2-bcdA-efg; input supply 12-35 Vdc, 25 mA max; or 100-265 Vac, 50-60 Hz, 50 mA; relay contact rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T4; IP66. Single Seal, where a= A or M; b = A,K or P; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5, A,B,C, D or E; efg = 005 to 130 inches (13 to 330 cm). MWP rated up to a maximum of 1500 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 961-xxxx-0x4 or 0x5/9a1-bcde=fgh w/integral probe; or Transmitter, Model 961-xxxx-1x4 or 1x5 w/remote probe, Model 9a1-bcde=fgh; input supply 12-35 Vdc, 25 mA max; or 100-265 Vac, 50-60 Hz, 50 mA; relay contact rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T4; IP66/IP67. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5,A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 962-xxxx-0x4 or 0x5/9a2-bcdA-efg w/integral probe; or Transmitter, Model 962-xxxx-1x4 or 1x5 w/remote probe, Model 9a2-bcdA-efg; input supply 12-35 Vdc, 25 mA max; or 100-265



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Vac, 50-60 Hz, 50 mA; relay contact rated 250 Vac, 5 A; Max Ambient 71 Deg C; Temp. Code T4; IP66/IP67. Single Seal, where a= A or M; b = A,K or P; c = 1,2,3,4,B,C or D; d = 1,2,3,4,5, A,B,C, D or E; efg = 005 to 130 inches (13 to 330 cm). MWP rated up to a maximum of 1500 PSI. Process Temperature range -40°C to +163°C.

Note: The MWP and Temperature are dependant on the model configuration. Specific MWP and Temperature information are permanently marked on the nameplate when configuration details are known.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I, Div 1, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class III, Div 1; Type 4X:

Echotel Ultrasonic Switches, Model 941-1abc-def w/integral probe; input supply 12-35 Vdc, 25 mA max; intrinsically safe, with Entity parameters $V_{max} = 30$ V, $I_{max} = 125$ mA, $P_{max} = 1$ W; $C_i = 15.5$ nF, $L_i = 8.58$ uH, when connected per Magnetrol Inst. Dwg. 99-5065; Temp. Code T4; Max ambient 71 Deg C; IP66. Single Seal, where ab = 11,22,23,33 or 43, c = E or M, def = 1to 100 inches (3 to 250 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature rated up to a maximum of 85°C.

Echotel Ultrasonic Switches, Model 961-50xx-01x/9a1-bcde-fgh w/integral probe; or Transmitter, Model 961-50xx-11x w/remote probe, Model 9a1-bcde-fgh; input supply 12-35 Vdc, 25 mA max; intrinsically safe, with Entity parameters $V_{max} = 30$ V, $I_{max} = 125$ mA, $P_{max} = 1$ W; $C_i = 15.5$ nF, $L_i = 8.58$ uH, when connected per Magnetrol Inst. Dwg. 99-5065; Temp. Code T4; Max ambient 71 Deg C; IP66. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5, A,B,C, D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 962-50xx-01x/9a2-bcdA-efg; w/integral probe; or Transmitter, Model 962-50xx-11x w/remote probe, Model 9a2-bcdA-efg; input supply 12-35 Vdc, 25 mA max; intrinsically safe, with Entity parameters $V_{max} = 30$ V, $I_{max} = 125$ mA, $P_{max} = 1$ W; $C_i = 15.5$ nF, $L_i = 8.58$ uH, when connected per Magnetrol Inst. Dwg. 99-5065; Temp. Code T4; Max ambient 71 Deg C; IP66. Single Seal, where a= A or M; b = A,K or P; c = 1,2,3,4,B,C or D; d = 1,2,3,4,5, A,B,C, D or E; efg = 005 to 130 inches (13 to 330 cm). MWP rated up to a maximum of 1500 PSI. Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 961-50xx-014 or 015/9a1-bcde-fgh w/integral probe; or Transmitter, Model 961-50xx-114 or 115 w/remote probe, Model 9a1-bcde-fgh; input supply 12-35 Vdc, 25 mA max; intrinsically safe, with Entity parameters $V_{max} = 30$ V, $I_{max} = 125$ mA, $P_{max} = 1$ W; $C_i = 15.5$ nF, $L_i = 8.58$ uH, when connected per Magnetrol Inst. Dwg. 99-5065; Temp. Code T4; Max ambient 71 Deg C; IP66/IP67. Single Seal, where a= A or M; b = A,S,B,C,R,P,N or K; c = 1,2,3,4,B,C, or D; d = 1,2,3,4,5,A,B,C,D, or E; e = A,C or D; fgh = 001 to 130 inches (3 to 330 cm). MWP rated up to a maximum of 2000 PSI, Process Temperature range -40°C to +163°C.

Echotel Ultrasonic Switches, Model 962-50xx-014 or 015/9a2-bcdA-efg; w/integral probe; or Transmitter, Model 962-50xx-114 or 115 w/remote probe, Model 9a2-bcdA-efg; input supply 12-35 Vdc, 25 mA max; intrinsically safe, with Entity parameters $V_{max} = 30$ V, $I_{max} = 125$ mA, $P_{max} = 1$ W; $C_i = 15.5$ nF, $L_i = 8.58$ uH, when connected per Magnetrol Inst. Dwg. 99-5065; Temp. Code T4; Max ambient 71 Deg C; IP66/IP67. Single Seal where a= A or M; b = A,K or P; c = 1,2,3,4,B,C or D; d = 1,2,3,4,5,A,B,C,D or E; efg = 005 to 130 inches (13 to 330 cm). MWP rated up to a maximum of 1500 PSI. Process Temperature range -40°C to +163°C.



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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91 - General Requirements – Canadian Electrical Code, Part II

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

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

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

CSA Std C22.2 No. 142-M1987 - Process Control Equipment

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-C22.2 No. 60529:05 - Degrees of protection provided by enclosures (IP Code)

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