HW limit switch box series

Control unit that combines a limit switch box and solenoid valve into a single device. Maximum efficiency with minimum customer effort.

Features

- Twin shaft design
- Self lubricating bushings
- Optional integrated solenoid valve for maximum efficiency and compactness
- 3 or 5 way pneumatic valve with single or double coil configurations
- Aluminium enclosure with thick powder coat paint and integrated NAMUR mounting kit
- Up to 3 cable entries either metric or imperial
- Multiple indicator options

- Easy wiring through the terminal PCB board
- Optional position transmitter boards
- Optional Profibus communication board for complete process handling

Approvals

EAC, UL general purpose

SIL certificate: Up to SIL 2 approval on request

Protection rating: IP66 / 67

Nema 4 4X on request

Temperature:

-60 to +105 °C (-76 to +221 °F) standard temperature range

104 [4,094 in]

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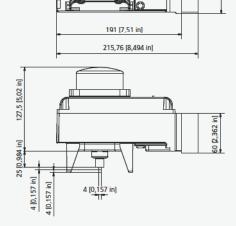


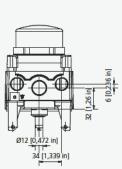


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HW N1 2 2 2 - 3 T W 9 7 P 3 0 Nomenclature Box HW= Aluminium control unit enclosure **Switch** 01 = SPDT electromechanical switches, silver plated contacts 01 = SPDT electromechanical switches, silver plated contacts 03 = SPDT electromechanical switches, gold plated contacts 15 = DPDT electromechanical switches silver plated contacts 16 = DPDT electromechanical switches silver plated contacts 17 = NAMUR inductive proximity sensor P+F type NI2-V3-N, NAMUR NC 2 wire (for Ex'ia') 18 = Inductive proximity P+F NBB2-V3-E2, 3 wire PNP NO 19 = Magnetic SPDT hermetically sealed switch (suitable for Ex'ia') 10 = Magnetic proximity SPDT hermetically sealed switch, silver plated snap acting contacts 10 = Magnetic proximity SPDT hermetically sealed switch, gold plated snap acting contacts 10 = Magnetic proximity DPDT hermetically sealed switch, silver plated snap acting contacts 10 = 3 position control system for single acting actuators, 5/3 way, double coil sov 10 = 3 position control system for double acting actuators, 5/3 way, double coil sov 11 = Asi board with 2 SPDT switches and solenoid valve control 12 = 4-20 mA analog position transmitter TO = 4-20 mA analog position transmitter HO = 4-20 mA HART transmitter Exia IIC certified PG = Profibus communication board See additional information and options on pages 14-19 **Switch Quantity** No switches for digital limit position feedback 1 switch or sensor (for DB, DA switch options) 2 switches or sensors 3 switches or sensors 4 = 4 switches or sensors Screw type terminals with sov connection Blue screw type terminals with sov connection Coating 0 = Black polyester powder coating (only for aluminium) = 2 cable entries 1/2" NPT = 2 cable entries M20x1.5 = 2 x 1/2" NPT + 1 x 3/4" NPT cable entries $4 = 2 \times M20 \times 1.5p + 1 \times M25 \times 1.5p$ cable entries Visual Position Indicator 0 = Red and green visual position indicator See additional information and options on page 11 Weather proof limit switch box EAC certified box for Russian market, with RTN permit U = UL certified box See additional information and options on page 13 Marking 0 = Ordinary location A = CULUS normally location See additional information and options on page 13 IP Protection rating 1 = Weather proof IP66/IP67 7 = Nema 4 4X Ambient temperature range: -10 to +50 °C (+14 to +122 °F) Ambient temperature range: -10 to +40 °C (+14 to +104 °F) Ambient temperature range: -5 to +50 °C (+23 to +122 °F) Ambient temperature range: -20 to +80 °C (-4 to +176 °F) without solenoid valve Material and solenoid valve selection Aluminium heavy duty body and cover Aluminium heavy duty body and cover die-cromated, 5/2 way aluminium solenoid valve, single coil Aluminium heavy duty body and cover die-cromated, 5/2 way aluminium solenoid valve, double coil Aluminium heavy duty body and cover die-cromated, 5/3 way aluminium solenoid valve, blocked centre, double coil (DB switch option) Aluminium heavy duty body and cover die-cromated, 5/3 way aluminium solenoid valve, exhaust centre, double coil (DA switch option) Ď No solenoid valve available Coil rating: 12 VDC 2, 3 W Coil rating: 24 VDC 2, 3 W Coil rating: 24 VAC 2, 8 VA Coil rating: 110 VAC 2, 8 VA Coil rating: 230 VAC 2, 8 VA Ex'ia' certified pilot valve coil rating: 12 VDC Ex'ia' certified pilot valve coil rating: 24 VDC Ex'n' certified pilot valve coil rating: 24 VDC Ex'n' certified pilot valve coil rating: 24 VDC Ex'n' certified pilot valve coil rating: 10 VAC Ex'n' certified pilot valve coil rating: 110 VAC No pneumatic connections ¼" NPT/F pneumatical connections