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]

0

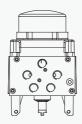


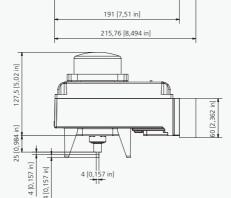


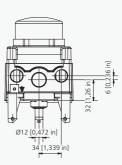


HW limit switch box









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HW N1 2 2 2 - 3 T W 9 7 P 3 0 Nomenclature HW= Aluminium control unit enclosure Switch 01 = SPDT electromechanical switches, silver plated contacts 03 = SPDT electromechanical switches, gold plated contacts 1F = DPDT electromechanical switches silver plated contacts 70 = NAMUR inductive proximity sensor P+F type NJ2-V3-N, NAMUR NC 2 wire (for Ex'ia') 73 = Inductive proximity P+F NBB2-V3-E2, 3 wire PNP NO C4 = Magnetic SPDT hermetically sealed switch (suitable for Ex'ia') C8 = Magnetic DPDT hermetically sealed switch (suitable for Ex'ia') N1 = Magnetic proximity SPDT hermetically sealed switch, silver plated snap acting contacts N3 = Magnetic proximity SPDT hermetically sealed switch, silver plated snap acting contacts N4 = Magnetic proximity DPDT hermetically sealed switch, silver plated snap acting contacts DB = 3 position control system for single acting actuators, 5/3 way, double coil sov DA = 3 position control system for double acting actuators, 5/3 way, double coil sov A1 = Asi board with 2 SPDT switches and solenoid valve control T0 = 4-20 mA analog position transmitter Switch TO = 4-20 mA analog position transmitter H0 = 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 switches or sensors = Screw type terminals with sov connection 2 = Blue screw type terminals with sov connection Coating 0 = Black polyester powder coating (only for aluminium) **Cable Entries** = 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 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 Temperature = 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 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) Coil Rating 0 = No solenoid valve available 2 = Coil rating: 12 VDC 2, 3 W 3 = Coil rating: 24 VDC 2, 3 W 4 = Coil rating: 24 VAC 2, 8 VA 5 = Coil rating: 110 VAC 2, 8 VA 6 = Coil rating: 230 VAC 2, 8 VA 1 = Ex'ia' certified pilot valve coil rating: 6 VDC 7 = Ex'ia' certified pilot valve coil rating: 12 VDC 8 = Ex'ia' certified pilot valve coil rating: 24 VDC 9 = Ex'n' certified pilot valve coil rating: 24 VDC A = Ex'n' certified pilot valve coil rating: 110 VAC Ex'n' certified pilot valve coil rating: 110 VAC **Pneumatical Connection** No pneumatic connections 1/4 " NPT/F pneumatical connections