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
- Three or five way pneumatic valve with single or double coil configurations
- Aluminium enclosure with thick powder coat paint and integrated NAMUR mounting kit
- Up to three 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

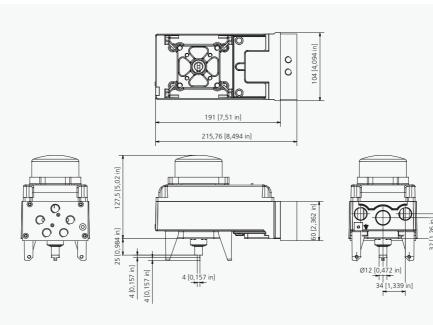
Temperature:

-10 to +50 °C (+14 to +122 °F) standard temperature range



HW limit switch box





HW limit switch box series

Nomenclature	HW	N1	2	2	2	- 3	Т	W	9	7	Ρ	3	0	Α
Box HW= Aluminium control unit enclosure									l					
Switch01 = Electro mec. switch, SPDT, silver contacts, up tp SIL3 (Switch qty: 2,3,4; Tert03 = Electro mec. switch, SPDT, gold contacts, up tp SIL3, Exia ready, (Switch qty: 1,2,3,4;14 = Electro mec. switch, DPDT, silver contacts, up tp SIL3 (Switch qty: 1,2; Tern06 = Electro mec. switch, SPDT, gold contacts, up tp SIL3, Exia ready, (Switch qty: 1,2,3,4;17 = Electro mec. switch, SPDT, gold contacts, up to SIL3, Exia ready, (Switch qty: 1,2,3,4;18 = Magnetic reed SPDT, hermetically sealed, up to SIL3, Exia ready, (Switch qty: 1,2,3,4;19 = Mag. proximity SPDT gold hermetically sealed up to SIL3, (Switch qty: 1,2,3,4;19 = Mag. proximity SPDT gold hermetically sealed up to SIL3, (Switch qty: 1,2,3,4;19 = Mag. proximity SPDT gold hermetically sealed up to SIL3, (Switch qty: 1,2,3,4;11 = Inductive proximity NBP4-12GM40-Z0 z wirze, (Switch qty: 1,2,3,4;12 = Inductive proximity NB82-V3-E2, PNP NO, up to SIL3, (Switch qty: 1,2,3,4;13 = Inductive proximity NB2-V3-E2, PNP NO, up to SIL3, Exia ready, (Switch qty: 1,2,3,4;14 = Inductive proximity NS5026, 2 wire, NO /NC, (Switch qty: 1,2,3,4;15 = Inductive proximity NS2-V3-N2, wire, up to SIL3, Exia ready, (Switch qty: 1,2,3,4;16 = Inductive NAMUR proximity SI3,5 SN, 2 wire, WD /NC, (Switch qty: 1,2,3,4;17 = 4-20mA analog position transmitter, (Switch qty: 0; Terminal digit: A; t11 = 4-20mA analog position transmitter, Exia ready, (Switch qty: 0; Terminal16 = Profibus communication card17 See additional information and options on pages 14-19	Terminal digit: 0; temp di rimal digit: 0; temp di reminal digit: 0; temp di Terminal digit: 0; temp di Terminal digit: 0; temp di Terminal digit: 0; temp di minal digit: 0; temp di minal digit: 0; temp di minal digit: 0; temp di minal digit: 0; temp di reminal digit: 0; temp di terminal digit: 0; temp di terminal digit: 0; temp di terminal digit: 0; temp di terminal digit: 5) ,2; Terminal digit: 4; temp	ligit: 5) git: 5) ligit: 5) ligit: 5) git: 5) git: 5) git: 5) git: 5) git: 5) git: 5) ligit: 5) digit: 5) digit: 5)												
Switch Quantity $2 = N^{\circ} 2$ switch (re $0 =$ no switches for digital feedback $3 = N^{\circ} 3$ switch (re $1 = N^{\circ} 1$ switch (related to switch description) $4 = N^{\circ} 4$ switch (re	lated to switch desci	ription)											L
Terminals 0 = Pre-wired terminal strip with additional extra poles for solenoid valve constructions (for switches 01, 03, 1F, 06 C4, C8, N1, N3, 32, 70, 62, 73, 75) A = Pre-wired terminals without solenoid valve connection (for switches N4)														L
Coating 0 = Black polyester powder coating (only for aluminium)														
Cable Entries1=2 cable entries1/2" NPT2=2 cable entriesM20x1.53=2 x 1/2" NPT + 1 x 3/4" NPT cable entries4=2 x M20 x 1.5p + 1 x M25 x 1.5p cable entries														L
Visual Position Indicator 0 = Red and green visual position indicator See additional information and options on page 11														L
Approval W =Weather proof limit switch box G =EAC certified box for Russian market, with RTN permit U =UL certified boxSee additional information and options on page 13														L
Marking 0 = Ordinary location A = CULUS normally location See additional information and options on page 13														L
IP Protection rating 1 = Weather proof IP66/IP67 7 = Nema 4 4X														
Temperature 5 = Ambient temperature range: -5 to +50 °C (+23 to +122 °F) For optional HW limit switch box without solenoid pilot valve please follow SF, SS temperature options.														
Material and solenoid valve selection 3 = Aluminium heavy duty body and cover A = Aluminium heavy duty body and cover die-cromated, 5/2 way aluminium solenoid valve, single coil B = Aluminium heavy duty body and cover die-cromated, 5/2 way aluminium solenoid valve, double coil C = Aluminium heavy duty body and cover die-cromated, 5/3 way aluminium solenoid valve, exhaust centre, double coil (DB switch option) D = Aluminium heavy duty body and cover die-cromated, 5/3 way aluminium solenoid valve, exhaust centre, double coil (DA switch option)													l	
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 VDC 2, 3 W 5 = Coil rating: 110 VAC 2, 8 VA 6 = Coil rating: 230 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														
Pneumatical Connection 0 = No pneumatic connections A = ¼ " NPT/F pneumatical connections														