











AIR-CON LIMIT SWITCH BOX

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Description

The ALS200 series Limit Switch is a rotary position indication device. This product was designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options. The visual indicator on the top of the device can also clearly display the valve position for local detection.

Features

- Easy mounting, NAMUR and ISO5211 adjustable bracket same for 30x80-130mm, H20-30mm. standard is stainless steel.
- Higher level weather proof(IP67)

Technical Data

Fasteners

Shaft

- Small switch box to make the installation more flexible considering the environment limit.
- Dual cable entries, 2x1/2'NPT (Standard) to satisfy customer's different requirements.
- Captive cover screws, No need t worry about loosing the screws while the cover is open.

Stainless steel

Stainless steel Namur



EnclosureDie-casting aluminum;
O-ring sealedConduit EntriesTwo1/2" NPTCoatingDichromate conversion with
polyester powder coatingTerminal Strip Contacts8O-ringsBuna NAmbient Temperature-15°F ~ 185°F

Drawing and Dimensions





Mounting Bracket



Also MB-3.4:30x80~130;H:20~30

(Stainless Steel)

ALS200

Popular Switch and Sensor

Mechanical Switches

Electrical Ratings

Conventional Voltage: M2 2SPDT 5A 125-250VAC Special Voltage: M2 2SPDT 16A 125-250VAC Ambient Temperature -15°F ~ 185°F



Electrical Ratings

ML2 Low Temp. 2SPDT 16A 125-250VAC Ambient Temperature -40°F ~ 185°F

Electrical Ratings

MG2 Gold contacts 2SPDT 0.1A 24-48VDC 0.5A 125-250VAC Ambient Temperature -15°F ~ 250°F



Analog Output

Fanalog output 4-20mA transmitter(0°-90°)



M5+4~20mA Output



Proximity Sensor (PP22)

Open/Closed Path Indicators

Y90-90° Yellow Open, Red Closed G90-90° Green Open, Red Closed P90 – Yellow Base Red Bar

Proximity Sensor (Inductive)

Electrical Ratings

PP22 2-p+f Inductive sensors (2 wire) NCB2-V3-N0 8VDC,<=1mA Ambient Temperature -15°F ~ 185°F

Electrical Ratings

PA22/3 2- ALPS Inductive sensors (2 or 3 wire) 10-30VDC,<=100mA



Ambient Temperature -15°F ~ 170°F

Proximity Sensor (Magnet)

Electrical Ratings QA22/3 2- ALMS Magnet sensors (3 wire) 5-240VAC/DC,<=300mA Ambient Temperature -15°F ~ 170°F



AS-i Communication Card

AS2 AS-Interface 20-28VDC, <=41mA



AS-i Sensors



Proximity Sensor (PA23)

L – Three Way "L" Yellow Base Red Bar T-Three Way "T" Yellow Base Red Bar P180-Yellow Base Red Bar



Description

The ALS300 Limit Switch is a rotary position indication device. This product was designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options. The visual indicator on the top of the device can also clearly display the valve position for local detection. Every detail of its construction has been optimized to outperform.

Features

- Compact and Beautiful Design, Polyester powder coated aluminum die-casting housing.
- ► Higher level weather proof.
- Dual cable entries, 2x1/2"NPT (Standard) to satisfy customer's different requirement.
- "Quick-Set"Cam, spring loaded splined cam. no need to adjust again after initial setting and easy setting without tool.
- Easy mounting, NAMUR and ISO5211 adjustable bracket same for 30x80-130mm H:20-30mm.



D Technical Data

Enclosure	Die-casting aluminum; O-ring sealed	Conduit Entries	Two1/2" NPT
Coating	Dichromate conversion with polyester powder coating	Terminal Strip Contacts	8
O-rings	Buna N	Ambient Temperature	-15°F ~ 185°F
Fasteners	Stainless steel	Mounting Bracket	Also MB-3.4:30x80~130;H:20~30 (Stainless Steel)
Shaft	Stainless steel Namur		

Drawing and Dimension







Description

The ALS400 series flame proof limit switch is a rotary position indication device for HAZARDOUS areas(Ex d IIC T6). This kind of limit switch box is designed to provide the most visible and reliable valve position indication in explosion-proof environments. With a wide variety of switches and sensors available to match your application.

Features

- Certified for use in all hazardous areas(Class I, Div.1&2, Groups A,B,C and D, Ex d IIB T6, Ex d IIC T6)
- Multiview visual Position Indicator,Secure waterproof, multi-angles visual valve positions involving top and side view.
- Materials of construction selected to excel in high vibration, corrosive, and dirty environments, either indoors or outdoors.
- "Flat cover" version is available without an indicator for areas with tight space requirements.
- Dual cable entries, 2x3/4" NPT (Standard) and 1/2"NPT (Optional) to satisfy customer's different requirements.



ATEX NEPSI CE

⟨Ex⟩ II 2 G Ex d IIC T6 Gb

Enclosure	Die-casting aluminum; O-ring sealed	Conduit Entries	Two 3/4" NPT
Coating	Dichromate conversion with polyester powder coating		Two 1/2" NPT(Optional)
O-rings	Buna N	Terminal Strip Contacts	8
Environment	NEMA 4,4X,7,8 IP66	Area Classification	ATEX,NEPSI:Ex d IIC T6,CSA Canada:Ex d IIC T6 Gb,CSA US:Class 1 Zone 1 AEx d IIC T6 Gb
Fasteners	Stainless steel	Ambient Temperature	-5°F ~ 120°F
Shaft	Stainless steel Namur	Mounting Bracket	Also MB-3.4:30x80~130;H:20~30 (Carbon Steel)

Drawing and Dimension

Technical Data





ALS400

IP66

Description

The ALS500 series flame proof valve monitor is a rotary position indication device for HAZARDOUS area(Ex d IIB T6). This kind of limit switch box has a wide variety of switches and sensors usage.

Features

- Moniteur's patented Engineered Loc-Ring Cam and Shaft Retention System provides unsurpassed sensing accuracy over the multi-million cycle life of the physical platform.
- Materials of construction selected to excel in high vibration, corrosive, and dirty environments, either indoors or outdoors.
- Dual cable entries, 2x3/4" NPT (Standard) and 1/2" NPT (Optional) to satisfy customer's different requirement.
- "Flat cover" version is available without an indicator for areas with tight space requirements.
- Certified for use in all hazardous areas(Class I, Div.1&2, Groups A,B,C and D, Ex d IIB T6)





Technical Data

Enclosure	Die-casting aluminum; O-ring sealed	Conduit Entries	Two 3/4"NPT
Coating	Dichromate conversion with polyester powder coating		Two 1/2" NPT(Optional)
O-rings	Buna N	Terminal Strip Contacts	8
Environment	NEMA 4,4X, IP66	Area Classification	Ex db IIB T6 Gb
Fasteners	Stainless steel	Ambient Temperature	-5°F ~ 120°F
Shaft	Stainless steel Namur	Mounting Bracket	Also MB-3.4:30x80~130;H:20~30 (Carbon Steel)

Drawing and Dimensions







ALS500

Description

The ALS600 series stainless steel flameproof valve monitor is a rotary position indication device for CORROSIVE and HAZARDOUS (Ex d IIB T6) areas. This kind of limit switch box has a wide variety of switches and sensors available to match your application for different usage.

Features

Technical Data

- Resistence to corrision of chemicals and salty fog.
- Dual cable entries, 2x3/4"NPT (Standard) and 1/2"NPT (Optional) to satisfy customer's different requirement.

 "Flat cover" version is available without an indicator for areas with tight space requirements. Certified for use in all hazardous areas(Class I, Div. 1&2, Groups A,B,C and D, Ex d IIB T6)

Multiview visual Position Indicator, Secure waterproof, multi-angles visual valve positions involving top and side view.



ALS600

EX II 2 G Ex db IIB T4 Gb II 2 G Ex db IIB T6 Gb

Stainless steel 304 or 316; Two 3/4"NPT Enclosure O-ring sealed **Conduit Entries** Resistence to corrosion of Two 1/2" NPT (Optional) Coating chemicals and salty fog Terminal Strip Contacts 8 **O-rings** Buna N **Environment** NEMA 4,4X, IP66 Area Classification Ex db IIB T6 Gb -5°F ~ 120°F **Fasteners** 304 or 316 Stainless steel Ambient Temperature Also MB-3.4:30x80~130:H:20~30 Shaft 304 Stainless steel Namur **Mounting Bracket** (Stainless Steel)

Drawing and Dimensions







Popular Switch and Sensor

Mechanical Switches

Electrical Ratings

M2 2SPDT 16A 125-250VAC M3 3SPDT 16A 125-250VAC M4 4SPDT 16A 125-250VAC M5 2DPDT 16A 125-250VAC Ambient Temperature -15°F ~ 185°F



Electrical Ratings

ML2 Low Temp. 2SPDT 16A 125-250VAC Ambient Temperature -40°F ~ 185°F

Electrical Ratings

MG2 Gold contacts 2SPDT 0.1A 24-48VDC 0.5A 125-250VAC Ambient Temperature -15°F ~ 250°F



Aanalog output 4-20mA transmitter(0°-90°)



M5+4~20mA Output



Proximity Sensor (PP22)

Open/Closed Path Indicators

Y90 – 90° Yellow Open, Red Closed G90 – 90° Green Open, Red Closed P90 – Yellow Base Red Bar

Proximity Sensor (Inductive)

Electrical Ratings

PP22 2-p+f Inductive sensors (2 wire) NCB2-V3-N0 8VDC,<=1mA Ambient Temperature -15°F ~ 185°F

Electrical Ratings

PA22/3 2- ALPS Inductive sensors (2 or 3 wire) 10-30VDC,<=100mA



Ambient Temperature -15°F ~ 170°F

Proximity Sensor (Magnet)

Electrical Ratings QA22/3 2- ALMS Magnet sensors (3 wire) 5-240VAC/DC,<=300mA Ambient Temperature -15°F ~ 170°F



AS-i Communication Card

AS2 AS-Interface 20-28VDC, <=41mA



AS-i Sensors



Proximity Sensor (PA23)

L – Three Way "L" Yellow Base Red Bar T – Three Way "T" Yellow Base Red Bar P180 – Yellow Base Red Bar



ALSD Top Valve Controller

Description

ALSD seriesTop Valve Controller is an optimizing solution to integrate sensors, solenoid coil and spool valve together and use for on/off valve control and position sensing in the process industries.

ALSD300

Die-cast aluminum with polyester power coated O-ring:Buna sealed Cable entry 2-1/2" NPT NAMUR shaft ISO Bracket IP67, NEMA4,4X



ALSD400

Die-cast aluminum with polyester power coated O-ring:Buna N sealed Cable entry 2-3/4" NPT, 2-1/2"NPT (Optional) Ex d IIC T6, IP66, NEMA4,4X



ALSD500

Die-cast aluminum with polyester power coated O-ring:Buna N sealed Single entry 1-1/2"NPT NAMUR shaft ISO Bracket Ex d IIB T6 IP66, NEMA4, 4X, 7



Dimension

ALSD300



133.5(5.26)

132(5.2) 2-NPT1/2"(Double Entry)









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57.1x57.1(2.25x2.25)





ALSD500



127.6(5.02)

(H)

ALSD Top Valve Controller

Coil/Pilot

C1 15mm pilot Orifice 1.1mm 12,24VDC, <2.5W 110,220VAC <3VA



C2 15mm pilot Orifice 1mm 24VDC 1W



C3 15mm pilot Orifice 0.5mm 24VDC(<1W) Ex ia II C T6





Spool / Valve

P2 5/2 spool valve Aluminum Anodized coated Single pilot actuated With manual operator Cv=1.4 3/2 available with plug











Sensor/Bus

Mechanical Switches

Honeywell or CROUZET switches M2 2SPDT16A125-250VAC M3 3SPDT16A125-250VAC M4 4SPDT16A125-250VAC M5 2DPDT16A125-250VAC



Proximity Sensor PA2/3 ALPS Inductive 2 or 3 wire 10-30VDC,<=100mA



PP22 p+f Inductive (2 wire) NCB2-V3-N0 8DCV,<=1mA Ex ia IIC T6



Magnet Sensor QA2/3 ALMS Magnet 2 or 3 wire 5- 240VAC/DC,<=300mA



ASi Sensor-communication Card AS2 AS-Interface 20-24VDC





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