

LIMIT SWITCH BOX

Valve Position Indicator “Quick Set” Cams Compact Design



ALS 3X Series

ALS 1X Series



AUTOMA
Automatic Valve & Accessories

LIMIT SWITCH BOX - ALS Series



ALS 1X Series
(Weather Proof, IP68)



ALS 3X Series
(Explosion Proof, Exd II C T6, IP68)



ALS35-PK
(1 or 5K ohm)



ALS35-CT
(4-20mA Output)

1. Valve position Indicator

Limit switch box indicator offers clear location of the current valve position by 2 mechanical switches

2. "Quick-Set" Cam

The operating position of the switches can be easily changed by adjusting the high resolution spline cams manually and independently without the need for additional tools (cam closed up, cam open-down)

3. Easy Wiring

ALS series are equipped with 2 standard conduit entries and 1 terminal strip with 8 point

4. Dual Wire Conduit

ALS10 : Dual 1/2" conduit entries

ALS30 : Dual 3/4" conduit entries

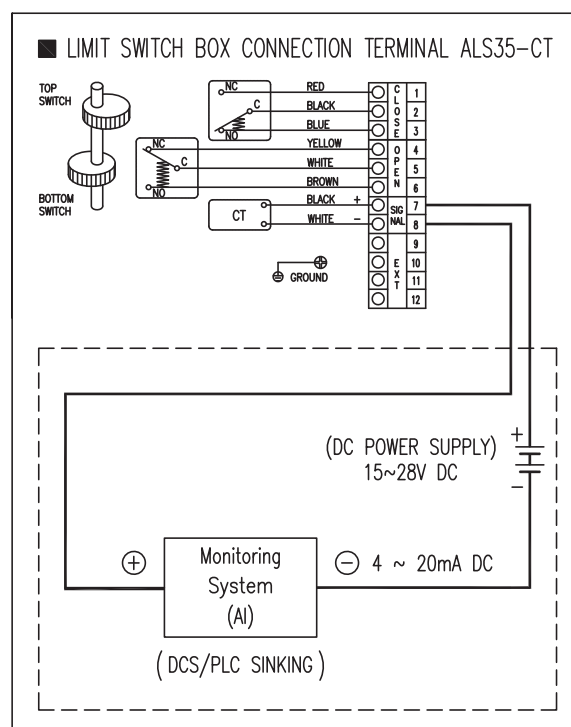
5. Captive Cover Bolts

Designed to be captured into the cover

6. Easy Mounting Bracket

Any actuator for rotary motion can be easily mounted.

NAMUR bracket supplied for easy mounting onto the actuator



LIMIT SWITCH BOX - ALS Series

Ordering Number

Series	Area Classification	Switch Type
ALS	1 : Weather proof	0 : 2 SPDT
	3 : Explosion proof	1 : Proximity Sensor (PNP/NPN)
		2 : 3 SPDT
		3 : 4 SPDT
		4 : 2 DPDT (ALS 3X Series Only)
		5-PK : 1 or 5K ohm
		5-CT : 4~20mA Output

Standard Materials of Construction

Name	No.	Specification
Outer position indicator	1	PE
Inner Position indicator	1	ABS
Housing(Body, Cover)	2	Die-Casting Aluminum
Shaft(Stem)	1	303 Stainless Steel
Mechanical Switch	2	Used in UL CSA approved
Inserts(ALS3X)	1	Bronze
O-Ring	4	Nitrile (Rubber)
Cam	2	ABS
Spring	1	304 Stainless Steel
Cover Screws	4	304 Stainless Steel
Terminal Strip	1	Polyethylene

Specification

Description	Series	
Model	ALS 1X Series	ALS 3X Series
Ambient Temperature	-20°C ~ 85°C (-4°F ~ 185°F)	
Cable Entry Standard	2 x 1/2" PF/PT	2 x 3/4" PF/PT
Cable Entry Option	2 x 1/2" NPT/M20/PG13.5	2 x 3/4" NPT/M20/M25/PG13.5/PG16
Terminal Block Standard	8 Points	
Terminal Block Option	12 & 14 Points / Solenoid Valve Connection 14 Points	
Position indicator	0° to 90° (Red for Close / Yellow for Open)	
Painting	Polyester Powder Coating With Black Color	
Bracket	Steel / SUS	

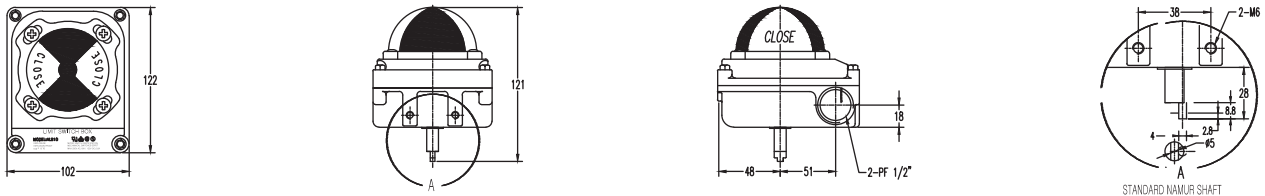
Certificate

MARK	ALS 1X Series		ALS 3X Series	
	Ratings	Reg No.	Ratings	Reg No.
KTL	IP68	13-040252-01	IP68	13-054947-01
KOSHA			Exd II CT6	13-AV2BO-0762X
CE (TUV NORD)	Low-Voltage Directive 2006/95/EC	K3441/L10	Low-Voltage Directive 2006/95/EC	K3441 / L1
FM Approvals			XP/I/1/ABCD/T5Ta=+85°C; I/1/AEx d II C/T5 Ta=+85°C; DIP/ II , III /1/EFG/T5 Ta =+85°C; IP67	3041064

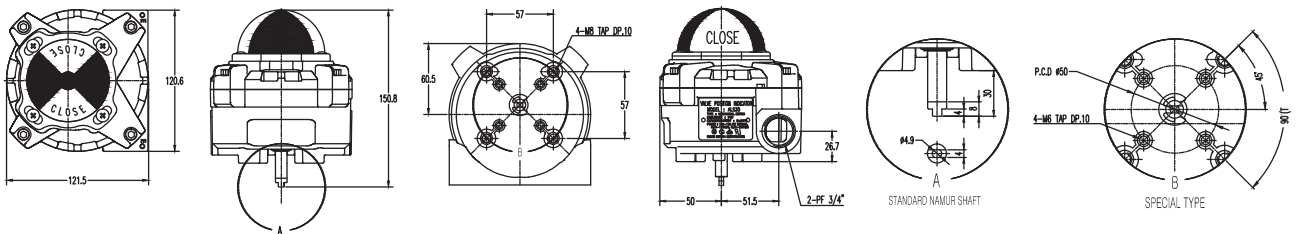
LIMIT SWITCH BOX - ALS Series

Dimension

ALS10 (Weather Proof)



ALS30 (Explosion Proof)



Mounting bracket

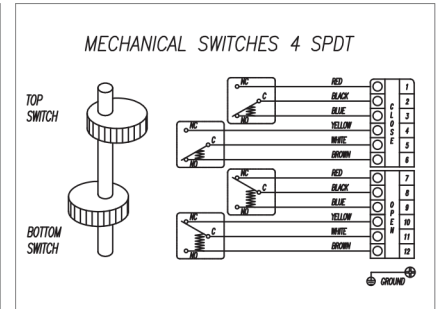
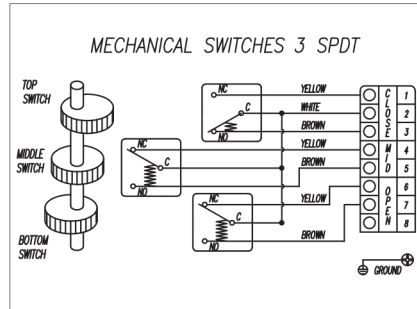
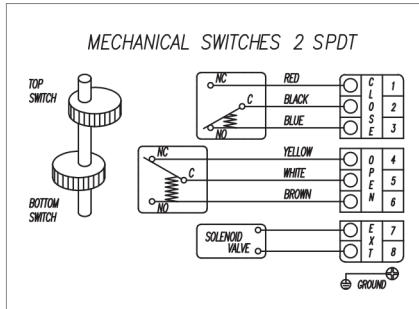
1 NAMUR standard bracket is supplied together with 1 limit switch box as standard

MODEL	BRACKET	Material	Actuator size	MODEL	BRACKET	Material	Actuator size
	AB1 ALS 1X,3X Series	SUS	30 X80 H:20		AB3 ALS 1X,3X Series (For A40)	Steel	25 X 50 H:20
	AB2 ALS 1X,3X Series (For A200, 250)	SUS	30 X130 H:30		S1 ALS 1X Series	Steel	30 X 80 H:20~30

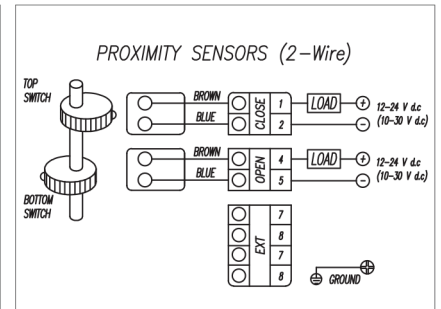
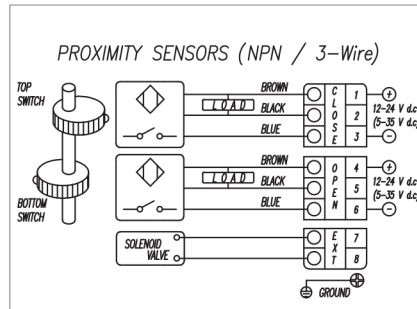
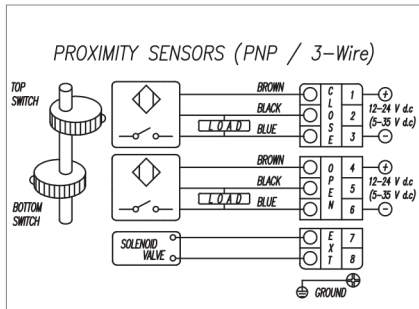
LIMIT SWITCH BOX - ALS Series

Wiring Diagram

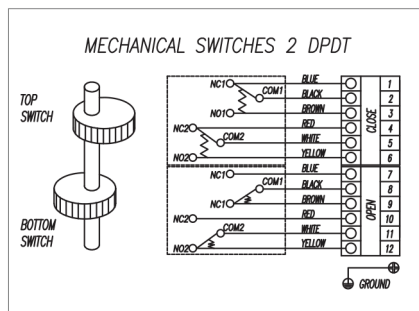
Mechanical Switch Type
(UL CSA VDE Approved)



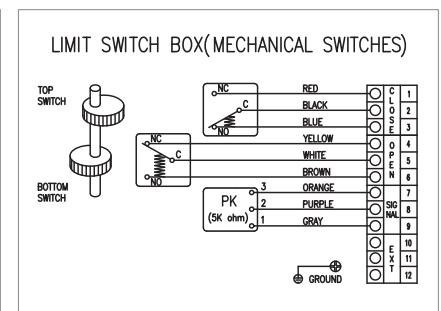
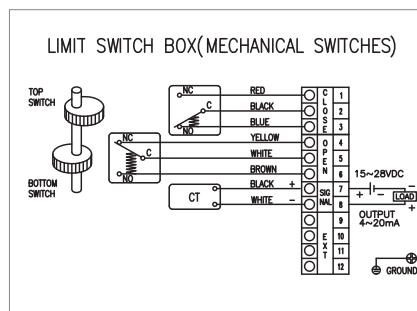
Proximity Sensor Type
(UL CE Approved)



Mechanical Switch Type
(UL CSA VDE Approved)



Limit Switch Type



AUTOMA
Automatic Valve & Accessories

Automa Co., Ltd.

21, Pyeongcheon-ro 862beon-gil, Wonmi-gu, Bucheon-si,
Gyeonggi-do, Republic of Korea

Tel : 82-(0)32-653-6477(Rep.) Fax : 82-(0)32-653-6478

<http://www.automa.co.kr>

