

LIMIT SWITCH BOXES & VALVE POSITION INDICATORS

ALS & ALSD SERIES



Reliable indication. Flexible feedback. Industrial protection.

PRODUCT RANGE OVERVIEW

A complete range of valve-position monitors and integrated top valve controllers for general industrial, corrosive and hazardous-area applications.



ALS-010

Details and ratings
on model pages



ALS-105

Details and ratings
on model pages



ALS-200

Details and ratings
on model pages



ALS-206

Details and ratings
on model pages



ALS-300

Details and ratings
on model pages



ALS-400

Details and ratings
on model pages



ALS-500

Details and ratings
on model pages



ALS-600

Details and ratings
on model pages



ALSD-300

Details and ratings
on model pages



ALSD-400

Details and ratings
on model pages



ALSD-500

Details and ratings
on model pages

SELECTION GUIDE

Select the enclosure, protection concept, feedback device, cable entry and mounting bracket to suit the valve, actuator and installation environment.

1

ENVIRONMENT

General industrial, washdown, corrosive or hazardous area.

2

ENCLOSURE

Polymer, epoxy-coated aluminum or AISI 316 stainless steel.

3

PROTECTION

Confirm IP / NEMA rating and required Ex classification.

4

FEEDBACK

Mechanical, inductive, magnetic or optional 4-20 mA output.

5

INTERFACE

Choose cable entries and the ISO / NAMUR mounting bracket.

6

CONTROL

Use ALSD when integrated solenoid control is required.

ALS-010 SERIES

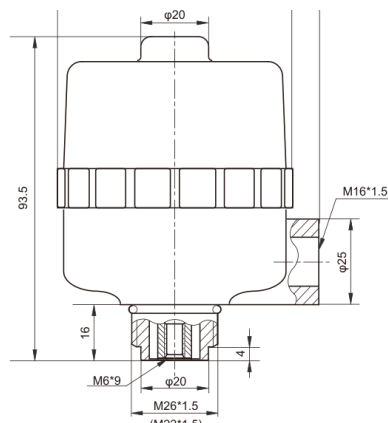
Compact position monitor designed specifically for angle-seat valves. Local visual indication is combined with remote switch or sensor feedback.



PRODUCT DATA

ENCLOSURE	ABS + PC
PROTECTION	IP65
CABLE ENTRIES	1-M16 x 1.5
MOUNTING	Angle-seat valve: M26 x 1.5; optional M22 x 1.5, M16 x 1.5 or G1/4

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-010	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
- M3 / M4: 3SPDT or 4SPDT
- M5: 2DPDT mechanical switches
- ML2: 2SPDT low-temperature switch
- MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
- PP23C: 3-wire PNP NO
- PP22D: 2-wire DC sensor
- PI23: PNP / NPN proximity sensor
- QA23: magnetic sensor

ALS-105 SERIES

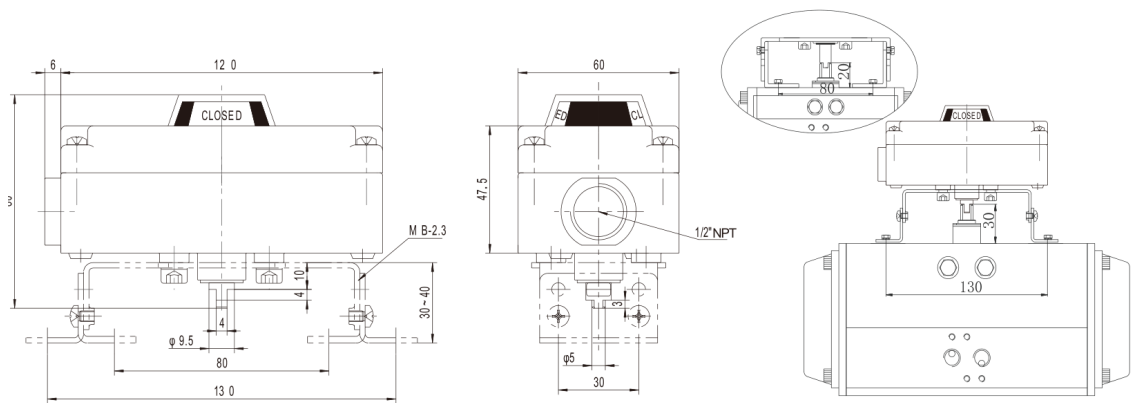
Transparent-cover, corrosion-resistant position monitor for clear local indication and reliable remote valve-position feedback.



PRODUCT DATA

ENCLOSURE	Corrosion-resistant polymer enclosure
PROTECTION	CE
CABLE ENTRIES	Cable entry options according to ordering code
MOUNTING	NAMUR / ISO 5211 direct mounting

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-105	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALS-200 SERIES

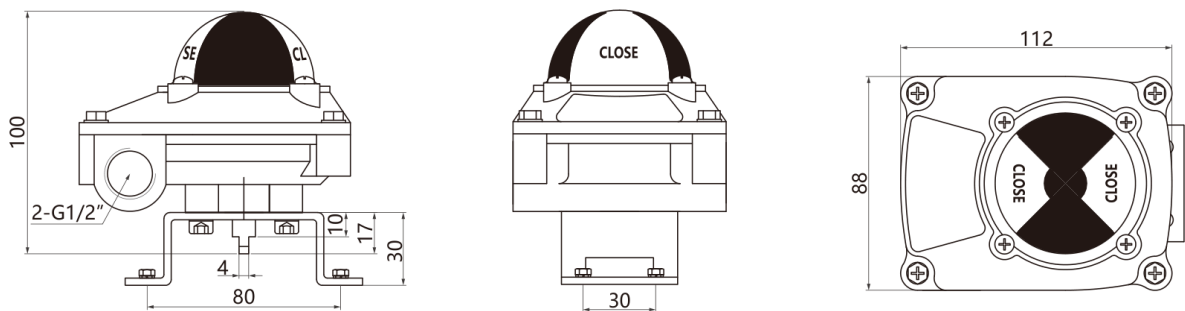
Robust general-purpose limit switch box for quarter-turn actuators, with clear visual indication and multiple switch or sensor choices.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP67 NEMA 4, 4X
CABLE ENTRIES	2-M20 x 1.5; optional 2-1/2 NPT or BSPP
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-200	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALS-206 SERIES

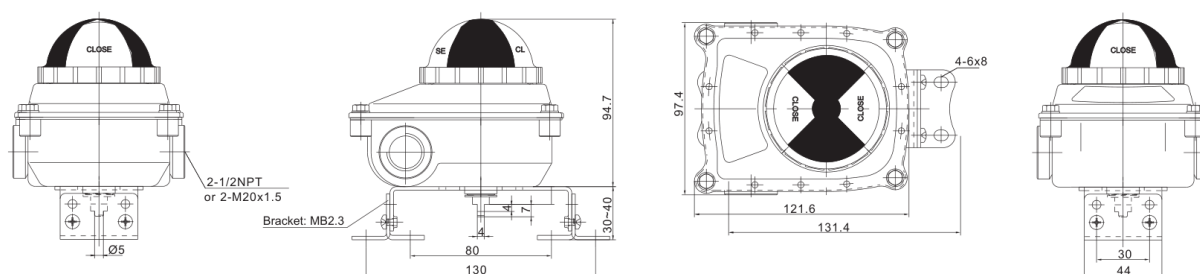
Stainless-steel position monitor for marine, chemical and other corrosive environments. Provides local and remote position indication.



PRODUCT DATA

ENCLOSURE	AISI 316 stainless steel
PROTECTION	CE
CABLE ENTRIES	2-M20 x 1.5 or 2-1/2 NPT
MOUNTING	MB2.3 stainless-steel bracket

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-206	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
- M3 / M4: 3SPDT or 4SPDT
- M5: 2DPDT mechanical switches
- ML2: 2SPDT low-temperature switch
- MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
- PP23C: 3-wire PNP NO
- PP22D: 2-wire DC sensor
- PI23: PNP / NPN proximity sensor
- QA23: magnetic sensor

ALS-300 SERIES

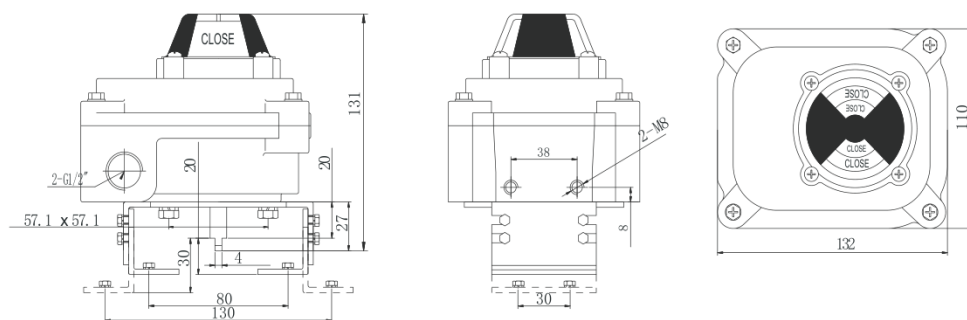
Protective limit switch box for valve monitoring, interlocking protection and remote alarm indication. Optional 4-20 mA feedback.



PRODUCT DATA

ENCLOSURE PROTECTION	Aluminum with epoxy coating IP67 NEMA 4, 4X
CABLE ENTRIES	2-M20 x 1.5; BSPP, NPT and M16 options
MOUNTING	MB3.0 / MB3.1 / MB3.2 / MB3.3

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-300	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
- M3 / M4: 3SPDT or 4SPDT
- M5: 2DPDT mechanical switches
- ML2: 2SPDT low-temperature switch
- MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
- PP23C: 3-wire PNP NO
- PP22D: 2-wire DC sensor
- PI23: PNP / NPN proximity sensor
- QA23: magnetic sensor

ALS-400 SERIES

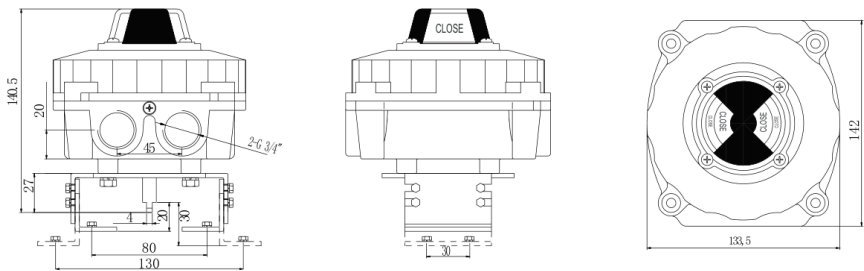
Explosion-protected limit switch box for hazardous-area valve-position monitoring with mechanical or proximity feedback.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP67 Ex d IIC T6 Gb DIP A20
CABLE ENTRIES	M20, NPT or BSPP options
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-400	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALS-500 SERIES

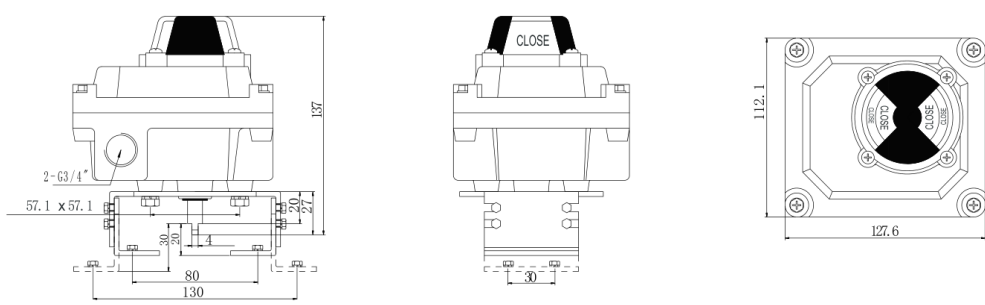
Heavy-duty hazardous-area position monitor with a robust aluminum enclosure and flexible switch or sensor configurations.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP66 Ex d IIB T6 DIP A21
CABLE ENTRIES	M20, NPT or BSPP options
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-500	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALS-600 SERIES

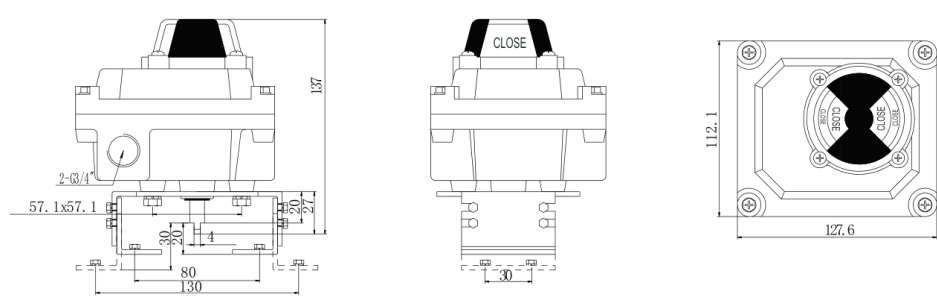
Stainless-steel hazardous-area position monitor for severe corrosive service, combining local indication and remote feedback.



PRODUCT DATA

ENCLOSURE	AISI 316 (CF8M) stainless steel
PROTECTION	IP66 NEMA 4, 4X Ex d IIB T6 DIP A21
CABLE ENTRIES	M20, NPT or BSPP options
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALS-600	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALSD-300 SERIES

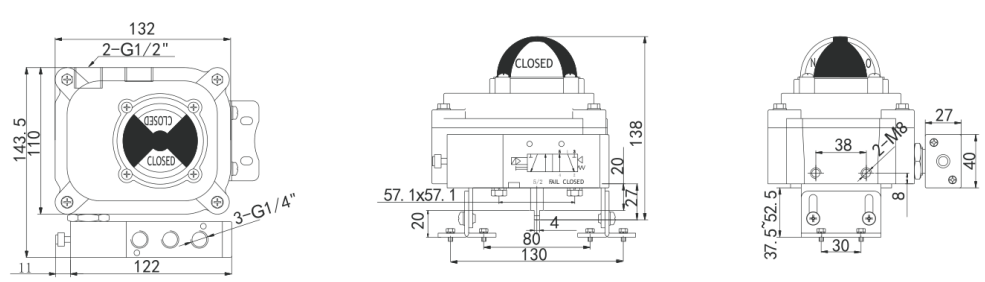
Integrated top valve controller combining position feedback and internal solenoid control in one compact enclosure.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP66 NEMA 4, 4X
CABLE ENTRIES	2-M20 x 1.5; optional NPT or BSPP
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALSD-300	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALSD-400 SERIES

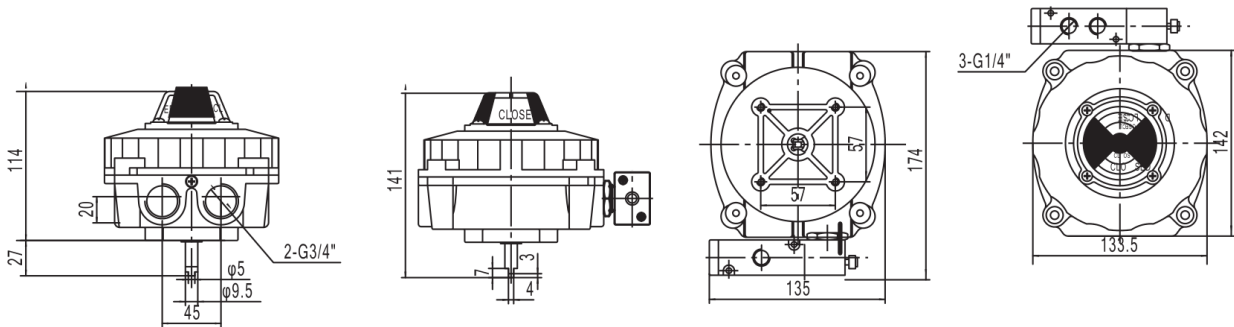
Explosion-protected top valve controller with integrated solenoid function for hazardous-area automated valves.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP66 Ex d IIC T6
CABLE ENTRIES	M20, NPT or BSPP options
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALSD-400	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

ALSD-500 SERIES

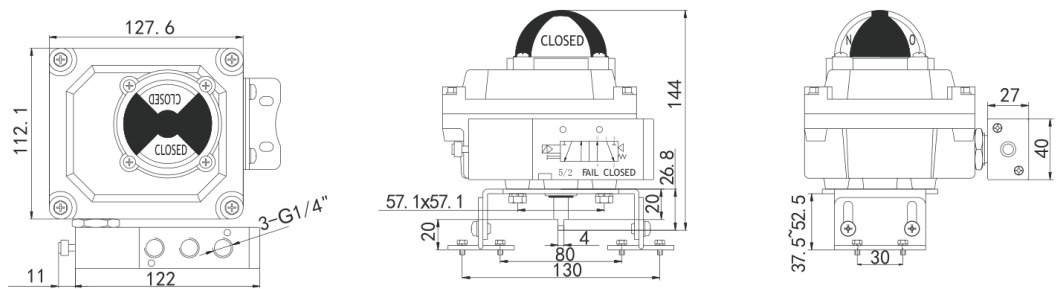
Heavy-duty hazardous-area top valve controller combining visual indication, electrical feedback and pneumatic control.



PRODUCT DATA

ENCLOSURE	Aluminum with epoxy coating
PROTECTION	IP66 Ex d IIB T6
CABLE ENTRIES	M20, NPT or BSPP options
MOUNTING	NAMUR / ISO bracket options

DIMENSIONS



ORDERING CONFIGURATION

SERIES	SIGNAL OPTION	CABLE ENTRY	MOUNTING
ALSD-500	M2 / M3 / M4 / M5 / ML2 / MG2	Select required entry	Select ISO bracket

AVAILABLE SIGNAL OPTIONS

- M2: 2SPDT mechanical switches
 - M3 / M4: 3SPDT or 4SPDT
 - M5: 2DPDT mechanical switches
 - ML2: 2SPDT low-temperature switch
 - MG2: 2SPDT gold contacts
- PP22A / PP22B: 2-wire inductive
 - PP23C: 3-wire PNP NO
 - PP22D: 2-wire DC sensor
 - PI23: PNP / NPN proximity sensor
 - QA23: magnetic sensor

SWITCH & SENSOR OPTIONS

Signal devices are selected as part of the ordering code. Final electrical ratings and hazardous-area suitability must match the required switch or sensor.

MECHANICAL SWITCHES

- M2 - 2SPDT Honeywell
- M3 - 3SPDT Honeywell
- M4 - 4SPDT Honeywell
- M5 - 2DPDT Honeywell
- ML2 - 2SPDT Cherry, -40 C
- MG2 - 2SPDT gold contacts

INDUCTIVE SENSORS

- PP22A - 2-wire, 8.2 VDC, ≤ 1 mA
- PP22B - 2-wire, 8.2 VDC, ≤ 1 mA
- PP23C - 3-wire, 10-30 VDC, PNP NO
- PP22D - 2-wire, 5-60 VDC
- PI23 - 3-wire, 5-36 VDC, PNP/NPN
- PA22 / PA23 - 10-30 VDC

ADDITIONAL FEEDBACK

- QA23 - magnetic sensor, 5-240 VAC/DC
- T - 4-20 mA analog position output
- Availability depends on selected enclosure
- Confirm intrinsic-safety barriers where required

INSTALLATION & CAM ADJUSTMENT

1

Isolate all electrical and pneumatic energy before installation.

2

Confirm that the selected bracket matches the actuator interface and shaft height.

3

Mount the bracket and position monitor without forcing the shaft or coupling.

4

Set the OPEN and CLOSED cams to actuate the selected switches at the required positions.

5

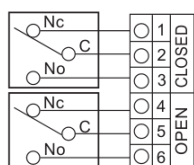
Verify local indication, remote feedback and terminal wiring through a complete valve cycle.

6

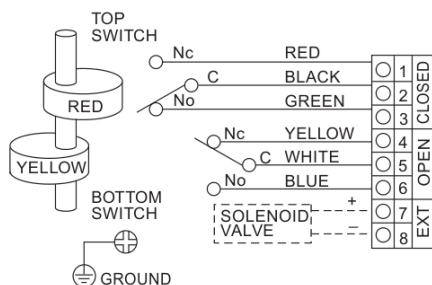
Tighten the cover and cable glands to maintain the specified enclosure protection.

MECHANICAL SWITCH WIRING

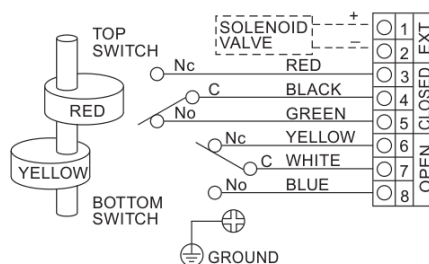
ALS-105
2SPDT Mechanical
Switches Wiring



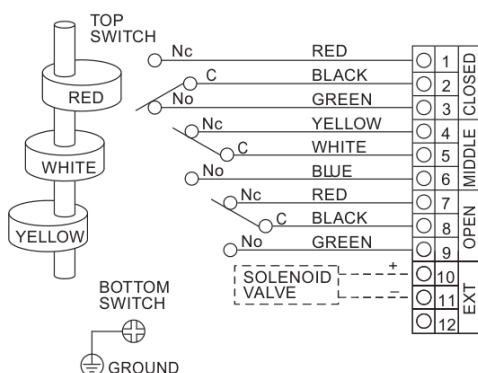
ALS-200/206/300/400M2
2SPDT Mechanical Switches Wiring



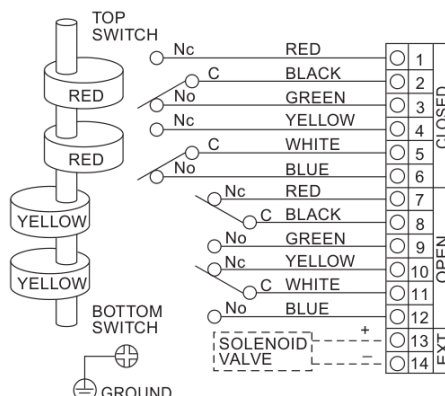
ALS-500/600M2
2SPDT Mechanical Switches Wiring



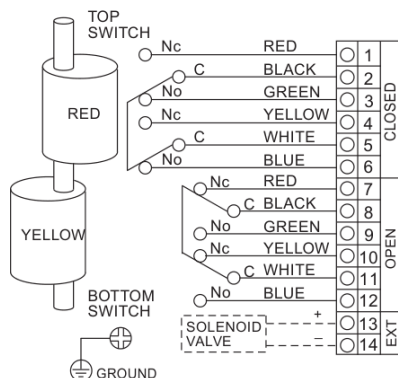
ALS-206/300/400/500/600M3
3SPDT Mechanical Switches Wiring



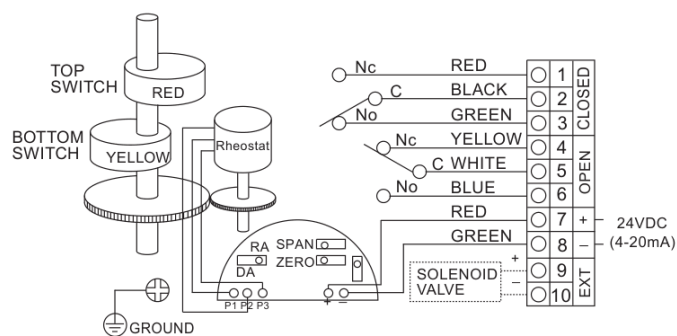
ALS-206/300/400/500/600M4
4SPDT Mechanical Switches Wiring



ALS-206/300/400/500/600M5
2DPDT Mechanical Switches Wiring

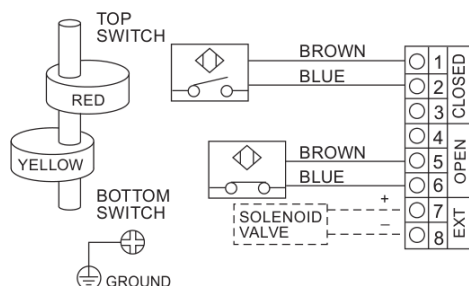


ALS-300/400M2T
2SPDT Mechanical Switches Wiring

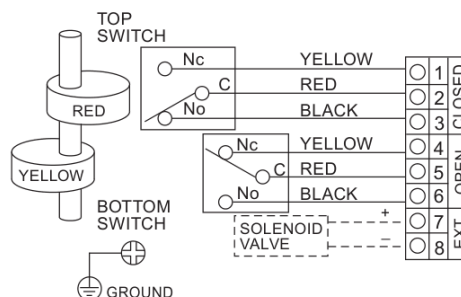


PROXIMITY SENSOR WIRING

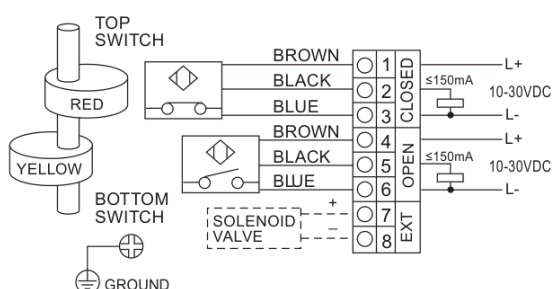
ALS200/206/300/400/500/600PP22/PA22
NC (2-Wire) Inductive Sensors



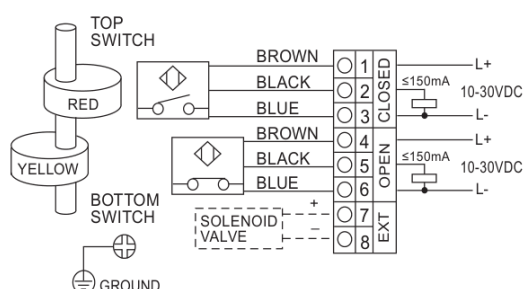
ALS200/206/300/400/500/600QA23
NC (3-Wire) Magnet Sensors



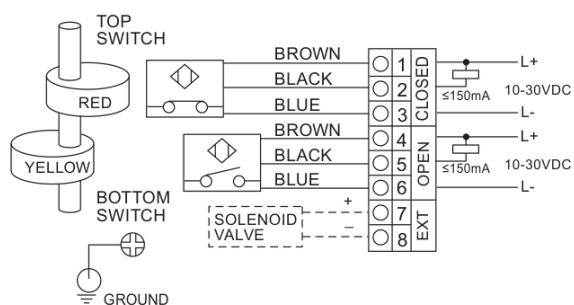
ALS200/206/300/400/500/600PA23
PNP NO (3-Wire) Inductive Sensors



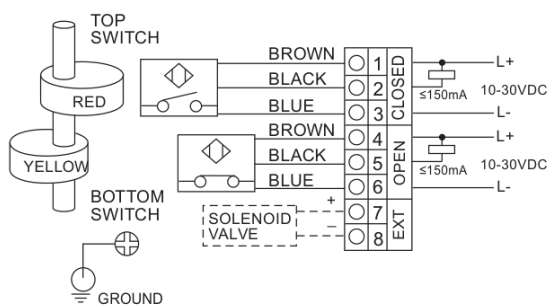
ALS200/206/300/400/500/600PA23
PNP NC (3-Wire) Inductive Sensors



ALS200/206/300/400/500/600PA23
NPN NO (3-Wire) Inductive Sensors



ALS200/206/300/400/500/600PA23
NPN NC (3-Wire) Inductive Sensors



ISO / NAMUR MOUNTING BRACKETS

Bracket selection is defined by actuator drilling pattern, shaft height and enclosure series. Carbon-steel and AISI 304 stainless-steel versions are available as indicated by the ordering code.

BRACKET	BOLT PATTERN	SHAFT HEIGHT	MATERIAL
MB2.3	30 x 80 / 130	20 / 30	AISI 304
MB3.0	30 x 80	20-30	Carbon steel or AISI 304
MB3.1	30 x 130	30-50	Carbon steel or AISI 304
MB3.2	30 x 80	20	Carbon steel or AISI 304
MB3.3	30 x 80 & 130	20-30	Carbon steel or AISI 304

MOUNTING CHECKS

- Confirm actuator top pattern and stem position.
- Select bracket width and bolt spacing.
- Match coupling / shaft dimensions.
- Maintain full engagement without axial loading.

VISUAL INDICATOR OPTIONS

High-contrast indicators provide clear local valve-position confirmation. Select the legend and rotation sequence to match valve function and installation orientation.



BLACK / RED
OPEN / CLOSED



RED / YELLOW
VALVE STATUS



RED / GREEN
OPEN / CLOSED



YELLOW
SINGLE-STATE



GREEN
SINGLE-STATE



30 DEG
MULTI-POSITION



45 DEG
MULTI-POSITION



60 DEG
MULTI-POSITION



90 DEG
T-PORT / L-PORT

HOW TO ORDER

Build the model code from the enclosure series, signal device, cable-entry configuration and mounting bracket. Add controller or indicator options where applicable.

1**SERIES**

ALS-300

2**SIGNAL**

M2

3**CABLE ENTRY**

2-M20 x 1.5

4**BRACKET**

MB3.3

ALS-300 / M2 / 2-M20 x 1.5 / MB3.3

ORDER REVIEW

- Verify enclosure and area classification.
- Verify switch electrical rating and circuit type.
- Verify cable thread and quantity.
- Verify actuator bracket pattern and shaft height.
- Confirm any analog output or integrated solenoid option.



by **ALFACOM**

PRECISION. RELIABILITY. CONTROL.

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