ISO9001 DNV·GL

ASCEND TORQUE



ALS

系列限位开关

ALS SERIES LIMIT SWITCH BOX

爱圣拓克(无锡)流体控制集团有限公司
Ascend Torque Flow Controls Co., Ltd.




无锡爱圣拓克流体控制有限公司
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产品一览/List of products



限位开关 / Limit Switch Box (NAMUR)



ALS-010 series

ABS + PC 塑料
电缆接口规格： 1-M16*1.5
阀座接口规格: M26*1.5
(可选: M22*1.5, M16*1.5, G1/4")
防护等级：IP65

ABS + PC
*Single Cable Entry: 1-M16*1.5*
*Angle Seat Valve Monting: M26*1.5*
*(Option: M22*1.5, M16*1.5, G1/4")*
IP65



ALS-300 series

铝合金环氧涂层外壳
双电缆入口：2-M20 * 1.5
(可选：2-1 / 2"NPT，2-1 / 2"BSPP)
防护等级：IP67, NEMA 4,4X

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5*
(Option: 2-1/2"NPT, 2-1/2"BSPP)
IP67, NEMA 4,4X,



ALS-500 series

铝合金环氧涂层外壳
双电缆入口：2-1/2" or 3/4"BSPP
(可选：2-1/2" or 3/4"NPT, 2-M20*1.5)
防护等级：IP66, Ex d IIB T6,
DIP A21 TA , T6

Aluminum with Epoxy Coating
*Double Cable Entry:2-M20*1.5*
(Option: 2-1/2" or 3/4"NPT,
2-1/2" or 3/4"BSPP)
IP66, Ex d IIB T6, DIP A21 TA , T6



ALS-200 series

铝合金环氧涂层外壳
双电缆接口: 2-M20*1.5
(可选: 2-1/2"NPT, 2-1/2"BSPP)
防护等级：IP67, NEMA 4,4X,

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5*
(Option: 2-1/2"NPT, 2-1/2"BSPP)
IP67, NEMA 4,4X,



ALS-400 series

铝合金环氧涂层外壳
双电缆接口: 2-1/2" or 3/4"BSPP
(可选: 2-1/2" or 3/4"NPT, 2-M20*1.5)
防护等级：IP67, Ex d IIC T6 Gb, DIP A20 TA,T6

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5*
(Option: 2-1/2" or 3/4"NPT,
2-1/2" or 3/4"BSPP)
IP67, Ex d IIC T6 Gb, DIP A20 TA,T6

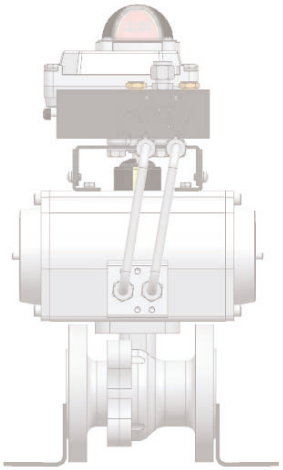


ALS-600 series

AISI316(CF8M)不锈钢外壳
双电缆接口: 2-M20*1.5
(可选: 2-1/2"NPT, 2-1/2"BSPP)
防护等级：IP66, NEMA 4,4X,
Ex d IIB T6, DIP A21 TA , T6

Stainless Steel AISI316(CF8M)
Double Cable Entry: 2-1/2" or 3/4"BSPP
*(Option: 2-1/2" or 3/4"NPT, 2-M20*1.5)*
IP66, Ex d IIB T6, DIP A21 TA , T6

顶部控制器 / Top Valve Controller (NAMUR)





铝合金环氧涂层外壳
双电缆接口: 2-M20*1.5 (可选: 2-1/2"NPT, 2-1/2"BSPP)
防护等级：IP66, NEMA 4,4X,

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5 (Option: 2-1/2"NPT, 2-1/2"BSPP)*
IP66, NEMA 4,4X

ALSD-300 series



铝合金环氧涂层外壳
双电缆接口: 2-1/2" or 3/4"BSPP (可选: 2-1/2" or 3/4"NPT, 2-M20*1.5)
防护等级：IP66, Ex d IIC T6

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5 (Option: 2-1/2" or 3/4"NPT, 2-1/2" or 3/4"BSPP)*
IP66, Ex d IIC T6

ALSD-400 series



铝合金环氧涂层外壳
双电缆接口: 2-M20*1.5 (可选: 2-1/2" or 3/4"NPT, 2-1/2" or 3/4"BSPP)
防护等级：IP66, Ex d IIB T6

Aluminum with Epoxy Coating
*Double Cable Entry: 2-M20*1.5 (Option: 2-1/2" or 3/4"NPT, 2-1/2" or 3/4"BSPP)*
IP66, Ex d IIB T6

ALSD-500 series

ALS-010系列/ALS-010 Series



IP65, Ex ia IIC T5Ga

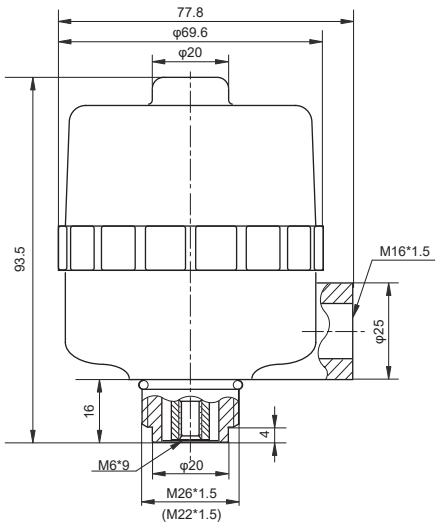
限位开关ALS010系列是专门为角座阀设计的，用于监控该阀的开启或关闭位置。阀门的位置状态由可见光以及开关（传感器）信号传送。

Limit switch box ALS010 series is specially designed for angle seat valve, which is intended to monitor the position - open or closed - of this valve. The position status of the valve is transmitted by visible lights and also by switch (sensor) signals.



安装示意/Installation

外形尺寸/Dimensions





转接套/Adaptor
M22*1.5 to M16*1.5, G1/4"

选型/Ordering Guide

ALS-010	M2	1-M16*1.5	M26*1.5

ALS系列限位开关
Limit Switch Box ALS-010 series
IP65

电缆接口/Cable Entry
1-M16*1.5

阀门连接/Valve Monting
M26*1.5
M22*1.5
M16*1.5
G1/4"

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
M2PP:2SPDT(Intrinsic Safe Ex ia IIC T5Ga)

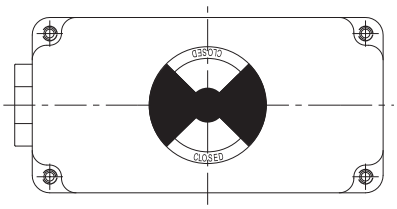
磁感开关/Magnet Sensors
QA23: 2or3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

ALS-105系列/ALS-105 Series



CE



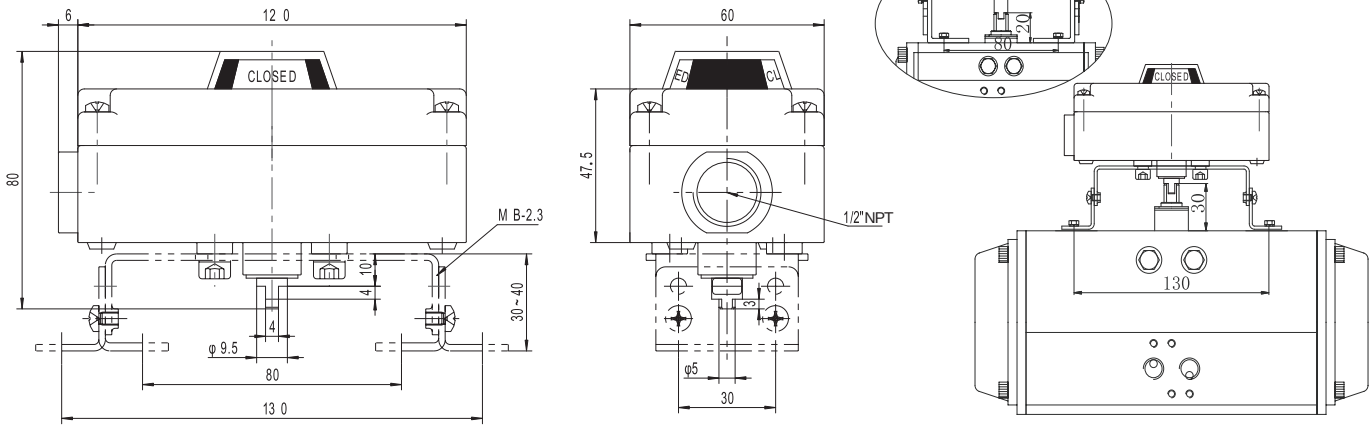


安装示意/Installation

ALS-105 系列防腐型阀门回讯器，采用全透视上盖，内部状态清晰辨识，一体式指示器盖防护安全可靠，可实现阀门位置现场可视和远程指示，可内置多种信号开关，支架符合 NAMUR / ISO5211 标准，直接安装气缸，方便牢固，防腐性能优越 .

ALS-105 series anti-corrosion limit switches box, with a transparent upper cover, the internal state is clearly identified, the integrated indicator cover is safe and reliable, and the product can be checked the valve position on-site and remote indication. It can be built with a variety of signal switches and bracket Comply with NAMUR/ISO5211 standard, directly install the cylinder, convenient and firm, superior anti-corrosion performance.

外形尺寸/Dimensions



选型/Ordering Guide

ALS-105	M2	1-1/2" NPT	MB2.3

ALS系列限位开关
Limit Switch Box ALS-105 series
CE

电缆接口/Cable Entry
1-1/2"NPT

支架/ISO Bracket
MB-2.3 30*80/130 H:20/30

材质: 碳钢或不锈钢
Material: Carbon Steel or AISI304

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

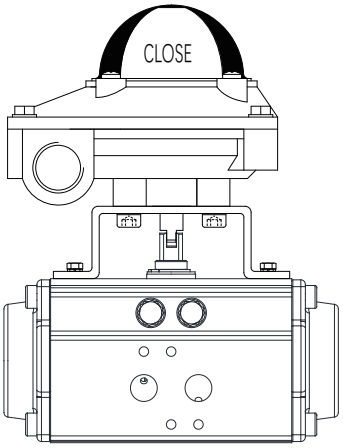
接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

ALS-200系列/ALS-200 Series





NEMA 4,4X and IP67

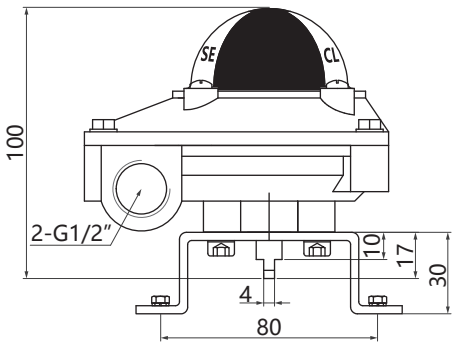


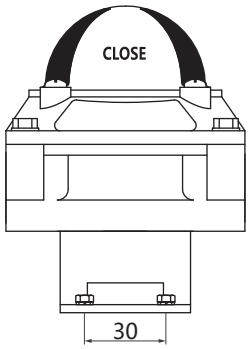
安装示意/Installation

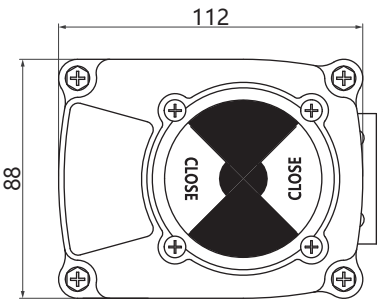
ALS-200 系列保护型限位开关是一种紧凑、经济、可靠的产品，实现了阀门位置的局部可视和远程显示。它允许不同的内置开关，并可以在高温，低温和其他恶劣环境下使用。

Protective type limit switch box ALS-200 series is a kind of compact, economic and reliable product, which has achieved local visibility and remote indication of valve position. It allows different built-in switches and can be used under high temperature, low temperature and other severe environments.

外形尺寸/Dimensions







选型/Ordering Guide

ALS-200	M2	2-M20*1.5	MB1.0

ALS系列限位开关
Limit Switch Box ALS-200 series
IP67, NEMA4, 4X

电缆接口/Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-M16*1.5

支架/ISO Bracket
MB1.0: 30*80,H:20(or H:30)
MB1.1: 30*130,H:30~50
MB2.3: 30*80&130,H:20~30

材质: 碳钢或不锈钢
Material: Carbon Steel or AISI304

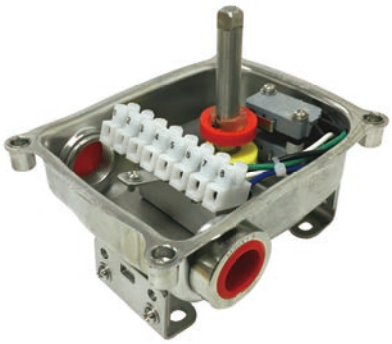
机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

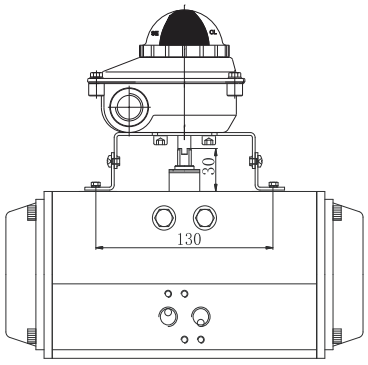
磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

ALS-206系列/ALS-206 Series





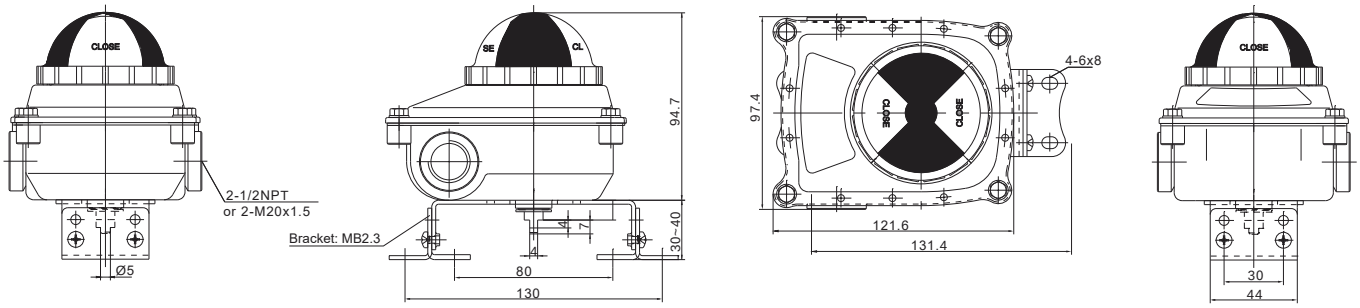


安装示意/Installation

ALS-206 系列不锈钢 AISI316 防护型限位开关，可在恶劣的环境下使用，不锈钢 AISI316 材质防腐性能卓越，广泛使用在海洋 / 化工等易腐环境，是一款经济、可靠、实用的产品，实现了阀门位置的现场可视和远程指示，可内置多种信号输出，适合多种恶劣环境下使用。

ALS-206 series stainless steel AISI316 protective limit switches, can be used in harsh environments. The stainless steel AISI316 material has excellent anti-corrosion performance. It is widely used in harsh environments such as marine/chemical industries. It is economical, reliable and practical. The product realizes on-site visual and remote indication of valve position, and can be built-in a variety of signal outputs, suitable for use in a variety of harsh environments.

外形尺寸/Dimensions



选型/Ordering Guide

ALS-206	M2	2-M20*1.5	MB2.3
ALS系列限位开关 **Limit Switch Box ALS-206 series** CE		**电缆接口/Cable Entry** 2-M20*1.5 2-1/2"NPT	**支架/ISO Bracket** MB-2.3 30*80/130 H:20/30 材质: 不锈钢 Material: AISI304

机械开关/Mechanical Switches

M2: 2SPDT(HONEYWELL)
M3: 3SPDT(HONEYWELL)
M4: 4SPDT(HONEYWELL)
M5: 2DPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

接近开关/Proximity Inductive Sensors

PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

磁感开关/Magnet Sensors

QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

ALS-300系列/ALS-300 Series

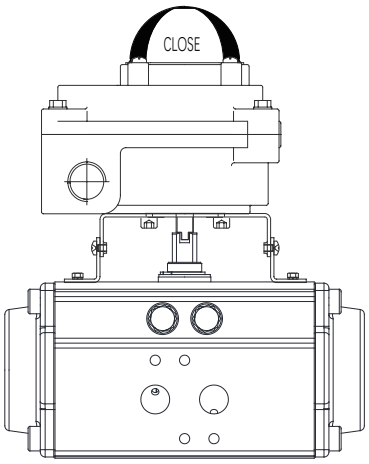




NEMA 4,4X and IP67

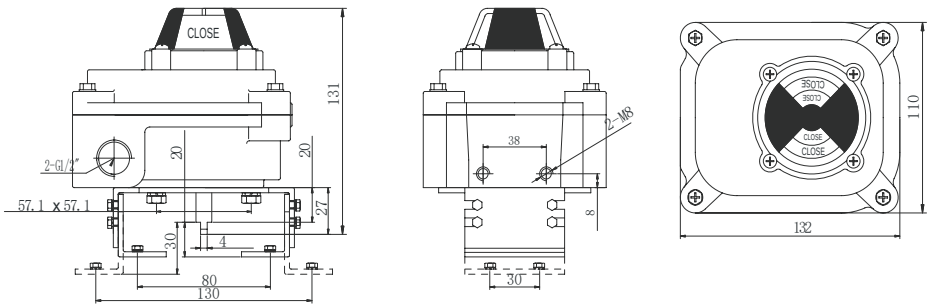
ALS-300 系列保护型限位开关也可用于重要后方联锁保护和远程报警指示。它是一种结构紧凑、功能强大、性价比高的产品。

Protective type limit switch box ALS-300 series can also be used for important backside interlocking protection and remote alarm indication. It is a product with compact structure, powerful function and high cost performance offered to users.



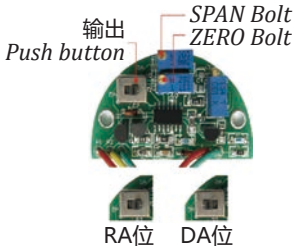
安装示意/Installation

外形尺寸/Dimensions



4-20mA
模拟输出
Analog Output





选型/Ordering Guide

ALS-300	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Limit Switch Box ALS-300 series
IP67, NEMA4, 4X

电缆接口/Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-M16*1.5

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)
材质: 碳钢或不锈钢
Material: Carbon Steel or AISI304

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
M3: 3SPDT(HONEYWELL)
M4: 4SPDT(HONEYWELL)
M5: 2DPDT(HONEYWELL)
ML2: 2SPDT -40℃(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

附加传感器/Additional Sensors for option
T: 4 ~ 20mA Analog Output
MG2: 2SPDT Gold Contacts(HONEYWELL)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

ALS-400系列/ALS-400 Series

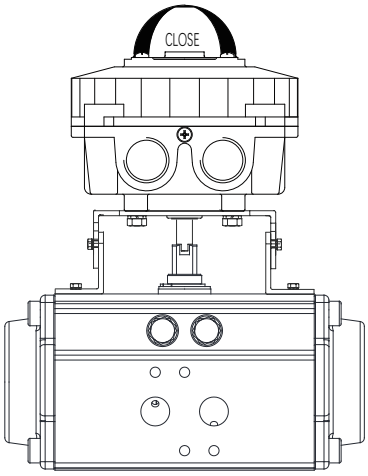




Ex d II CT6, DIP A20 TA, T6, IP67

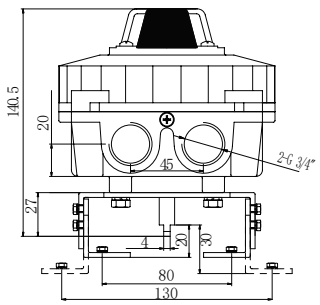
CT6 级防爆限位开关 ALS-400 系列为高档危险区域提供高性能、高可靠性的产品。产品已通过粉尘防爆（DIPA20 TA，T6）认证。无镁压铸铝外壳使产品更加安全可靠。

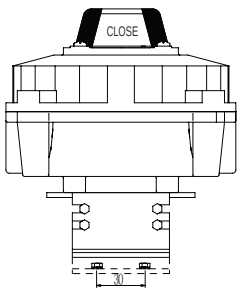
CT6 grade explosion-proof limit switch box ALS-400 series provides a product of high performance and reliability for high-grade hazardous area. The product has passed Ex d II CT6 and dust explosion-proof (DIPA20 TA,T6) certifications. Magnesium-free die-casting aluminum housing makes the product with more safety and reliability.

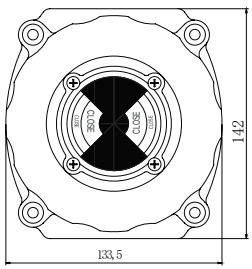


安装示意/Installation

外形尺寸/Dimensions







选型/Ordering Guide

ALS-400	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Limit Switch Box ALS-400 series
Ex d II CT6, DIP A20 TA, T6, IP67

电缆接口/Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-3/4"BSPP
2-3/4"NPT

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)
材质: 碳钢或不锈钢
Material: Carbon Steel or AISI304

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
M3: 3SPDT(HONEYWELL)
M4: 4SPDT(HONEYWELL)
M5: 2DPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

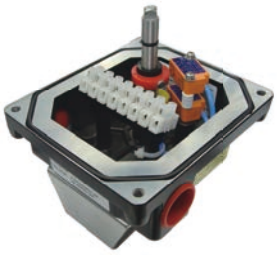
附加传感器/Additional Sensors for option
T: 4 ~ 20mA Analog Output
MG2: 2SPDT Gold Contacts(HONEYWELL)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

ALS-500系列/ALS-500 Series

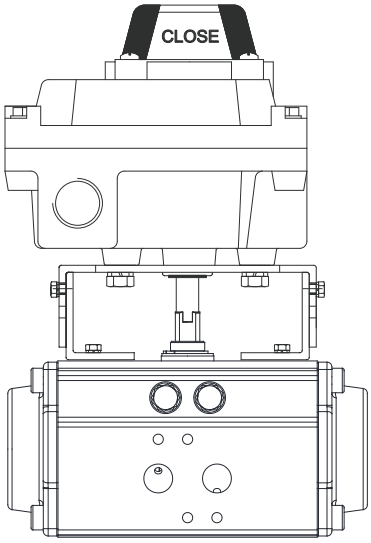




Ex d II BT6，DIP A21 TA，T6

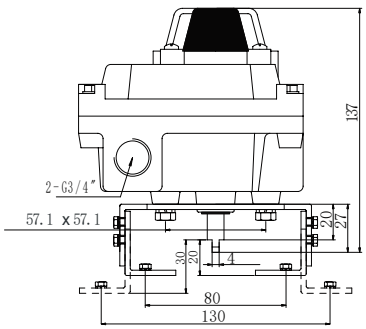
BT6 级防爆限位开关 ALS-500 系列为危险区域提供高性能、安全、紧凑的产品。外观精美，美观大方，使用寿命长，符合 Exd II BT6 和 DIP A21 TA, T6 防尘标准。

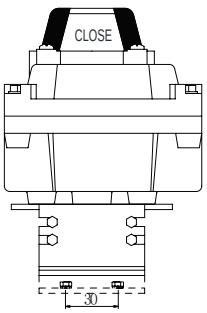
BT6 grade explosion-proof limit switch box ALS-500 series provides a product of high performance, safety and compactness for hazardous area. With exquisite and pleasing appearance, durable service life, the housing complies with Ex d II BT6 and dust explosion-proof (DIP A21 TA, T6) standards.

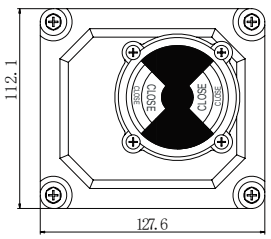


安装示意/Installation

外形尺寸/Dimensions







选型/Ordering Guide

ALS-500	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Limit Switch Box ALS-500 series
Ex d II CT6, DIP A21 TA, T6, IP66

电缆接口/Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-3/4"BSPP
2-3/4"NPT

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)
材质: 碳钢或不锈钢
Material: Carbon Steel or AISI304

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
M3: 3SPDT(HONEYWELL)
M4: 4SPDT(HONEYWELL)
M5: 2DPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

附加传感器/Additional Sensors for option
T: 4 ~ 20mA Analog Output
MG2: 2SPDT Gold Contacts(HONEYWELL)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

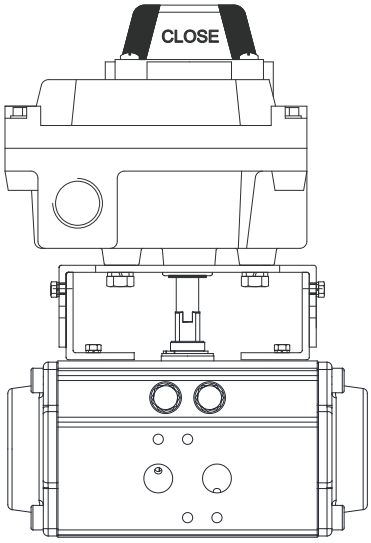
磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

ALS-600系列/ALS-600 Series





Ex d IIB T6, DIP A21 TA, T6

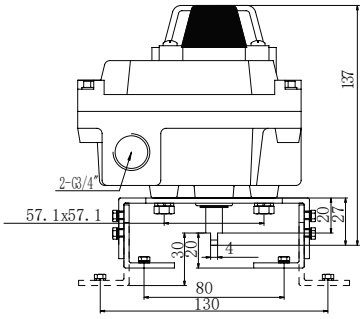


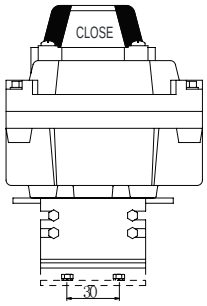
安装示意/Installation

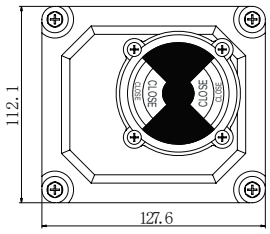
高耐腐蚀型防爆限位开关 ALS-600 系列，外壳采用不锈钢 AISI316 制成，提供高性能，安全，紧凑，价格低廉的防爆产品。外壳符合 Exd, IECEx, 粉尘防爆（DIP A21 TA, T6）。

Highly corrosion-resistant type explosion-proof limit switch box ALS-600 series, with the housing made of stainless steel AISI316, provides a explosion-proof products of high performance, safety, compactness and low price. The housing complies with Ex d, IECEx, dust explosion-proof (DIP A21 TA,T6) standards.

外形尺寸/Dimensions







选型/Ordering Guide

ALS-600	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Limit Switch Box ALS-600 series
Ex d II CT6, DIP A21 TA, T6, IP66

电缆接口/Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-3/4"BSPP
2-3/4"NPT

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)

材质: 不锈钢 Material: AISI304

机械开关/Mechanical Switches
M2: 2SPDT(HONEYWELL)
M3: 3SPDT(HONEYWELL)
M4: 4SPDT(HONEYWELL)
M5: 2DPDT(HONEYWELL)
ML2: 2SPDT -40°C(CHERRY)
MG2: 2SPDT Gold Contacts(HONEYWELL)

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

ALSD-300系列顶部控制器/ALSD-300 Series Top Valve Controller



NEMA4,4X, IP66



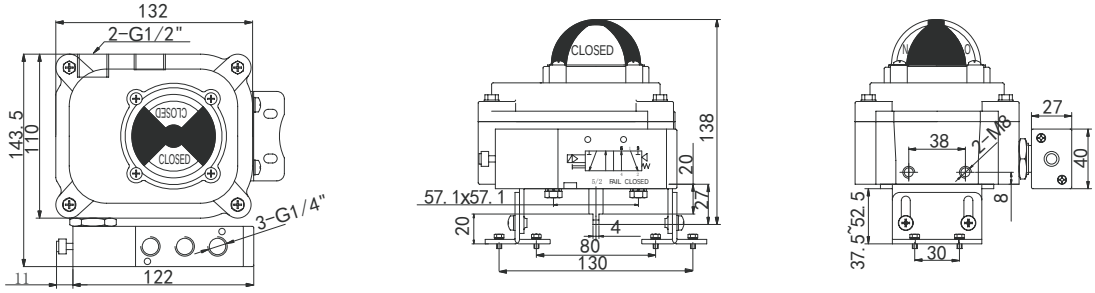


安装示意/Installation

ALSD-300 系列顶部控制器，集控制和反馈开关型阀功能于一体。它既能满足角行程控制阀系统的电气连接要求、通风控制和现场简洁安全的要求，又实现了电磁阀线圈与限位开关的集成。内置的电磁阀线圈提高了线圈的保护水平，延长了使用寿命。

ALSD-300 series top valve controller integrates multiple functions of control and feedback switch type valve in accordance with internationally advanced low power magnet technology. It not only meets the electrical connection requirement of rotary type control valve system, ventilation control and concise and safe site requirement, but also achieves integration of solenoid valve coil and valve position detector. The built-in solenoid valve coil has raised the coil's protective level and extended its service life.

外形尺寸/Dimensions



选型/Ordering Guide

ALSD-300	C1	S3	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Top Valve Controller
ALSD-300 series
NEMA4,4X, IP66

内置线圈
Internal Coil
C1: Normal (Amisco)
C2: Low Watt (Amisco)
C3: Intrinsic Safe(Crouzet)

功能
Function
of Valve
S3: 3/2 NC
S5: 5/2

电缆接口
Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-M16*1.5

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)
材质: 不锈钢 Material: AISI304

机械开关/Mechanical Switches
M2: 2SPDT 15A 125-250VAC(HONEYWELL)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

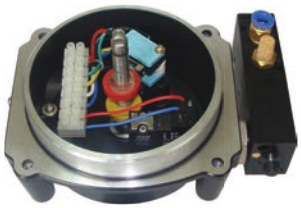
可选功能/Additional Sensors for option
T: 4 ~ 20mA Analog Output

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

ALSD-400系列顶部控制器/ALSD-400 Series Top Valve Controller



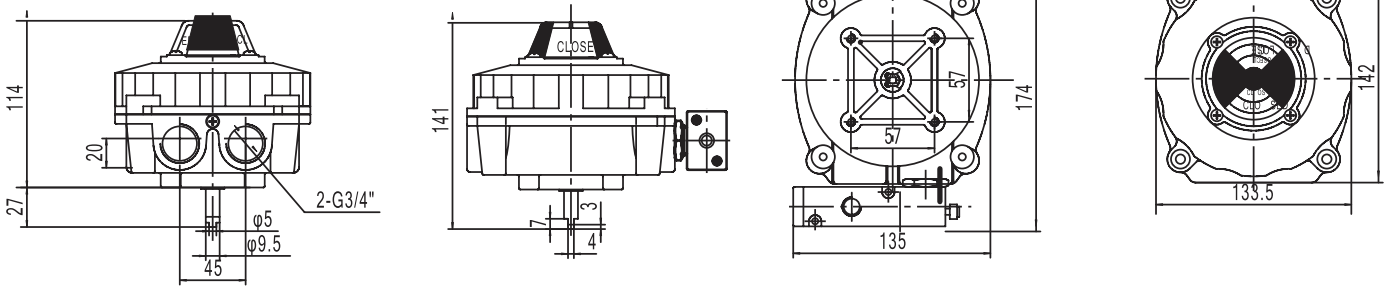
Ex d IIC T6



ALSD-400 系列高档防爆顶阀控制器集成了控制，阀位反馈，整体防爆技术，实现了电磁阀线圈和限位开关的整体防爆，防爆等级达 Ex d II CT6，大大降低了防爆产品的高成本，提高了产品的竞争优势。

ALSD-400 series high-grade explosion-proof top valve controller integrates control, valve position feedback, integral explosion-proof technologies and achieves integral explosion-proof of solenoid valve coil and limit switch box, with explosion-proof grade up to Ex d II CT6, greatly reducing the high cost of explosion-proof product and sharpening the competitive edge of the product.

外形尺寸/Dimensions



选型/Ordering Guide

ALSD-400	C1	S3	M2	2-M20*1.5	MB3.3
ALS系列限位开关 **Top Valve Controller** **ALSD-400 series** NEMA4,4X, IP66 Ex d IIC T6	**内置线圈** **Internal Coil** C1: Normal (Amisco) C2: Low Watt (Amisco) C3: Intrinsic Safe(Crouzet)	**功能** **Function** **of Valve** S3: 3/2 NC S5: 5/2		**电缆接口** **Cable Entry** 2-M20*1.5 2-1/2"BSPP 2-1/2"NPT 2-M16*1.5	**支架/ISO Bracket** MB3.0: 30*80,H:20~30 MB3.1: 30*130,H:30~50 MB3.2: 30*80,H:20 MB3.3: 30*80&130,H:20~30) 材质: 不锈钢 Material: AISI304

机械开关/Mechanical Switches
M2: 2SPDT 15A 125-250VAC(HONEYWELL)

磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

可选功能/Additional Sensors for option
T: 4 ~ 20mA Analog Output

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

ALSD-500系列顶部控制器/ALSD-500 Series Top Valve Controller



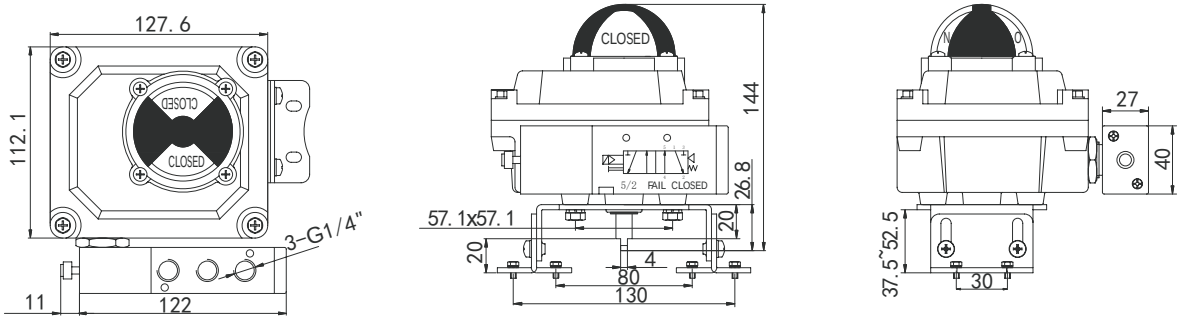
Ex d IIB T6



ALSD-500 系列防爆顶部控制器为普通防爆限位开关和电磁阀的集成提供了相对经济的产品。该产品简洁明了，防爆等级达 Ex d IIB T6。它实现了电磁阀线圈和限位开关盒的整体低成本防爆。

ALSD-500 series explosion-proof top valve controller provides a relatively economic product for integration of general explosion-proof limit switch box and solenoid valve. The product is concise and smart, with explosion-proof grade up to Ex d IIB T6. It has realized integral low-cost explosion proof of solenoid valve coil and limit switch box.

外形尺寸/Dimensions



选型/Ordering Guide

ALSD-500	C1	S3	M2	2-M20*1.5	MB3.3

ALS系列限位开关
Top Valve Controller
ALSD-500 series
NEMA4,4X, IP66
Ex d IIB T6

内置线圈
Internal Coil
C1: Normal (Amisco)
C2: Low Watt (Amisco)
C3: Intrinsic Safe(Crouzet)

功能
Function
of Valve
S3: 3/2 NC
S5: 5/2

电缆接口
Cable Entry
2-M20*1.5
2-1/2"BSPP
2-1/2"NPT
2-M16*1.5

支架/ISO Bracket
MB3.0: 30*80,H:20~30
MB3.1: 30*130,H:30~50
MB3.2: 30*80,H:20
MB3.3: 30*80&130,H:20~30)
材质: 不锈钢 Material: AISI304

机械开关/Mechanical Switches
M2: 2SPDT 15A 125-250VAC(HONEYWELL)

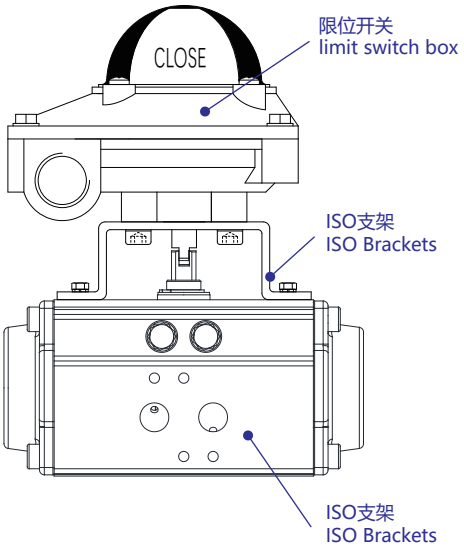
磁感开关/Magnet Sensors
QA23: 3 wire,5 ~ 240VAC/DC,≤300mA(ALMS)

可选功能/Additional Sensors for option
T: 4 ~ 20mA Analog Output

接近开关/Proximity Inductive Sensors
PP22A: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NCB2-V3-NO-Y)
PP22B: 2 wire,8.2VDC,≤1mA,Ex ia IIC T6(P+F NJ2-V3-N)
PP23C: 3 wire,10-30VDC,0-100mA(P+F NBB2-V3-E2 PNP NO)
PP22D: 2 wire,5-60VDC,4-100mA(P+F NBB3-V3-Z4)
PI23: 3 wire,5-36VDC,4-200mA(IFM IS5026 PNP/NPN)
PA22: 2 wire,10-30VDC,≤150mA(ALPS-24-NO)
PA23: 3 wire,10-30VDC,≤150mA(ALPS-24-NO PNP/NPN)

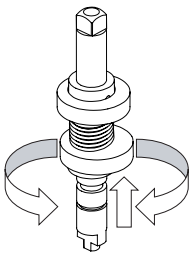
安装说明/Installation

1. 使用提供的四个螺钉将安装支架连接到限位开关箱壳体;
2. 将限位开关箱轴对准致动器轴的顶部并与其接合;
3. 使用合适的固定螺栓将支架连接到执行机构;
4. 将限位开关轴与执行器对准。
5. 将支架紧固到致动器顶部。

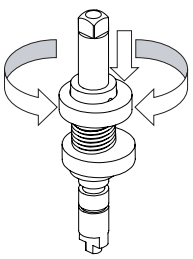


1. Attach proper mounting bracket to the limit switch box housing using four aniseed cap screws provided.
2. Align limit switch box shaft to top of actuator shaft and engage it.
3. Attach bracket to actuator using suitable hardware.
4. By actuating package the switch and actuator will self-align.
5. Tighten bracket to top of actuator.

限位开关调节/Limit Switch Adjustment



1.松开限位开关外盖螺丝，拆下盖子。
2.旋转执行机构到完全逆时针位置。阀门处于完全打开或关闭位置。
3.向上提起底部凸轮，转动直到开关被激活，然后松开。将凸轮返回到轴的花键保持器上。弹簧将保持凸轮啮合。
4.旋转执行机构到全顺时针位置。阀门处于全关闭或打开位置。
5.按下顶部凸轮并转动直到开关被激活，然后松开。让凸轮返回到轴的花键保持器上。弹簧将保持凸轮啮合。
6.将盖子放在限位开关盒上拧紧。

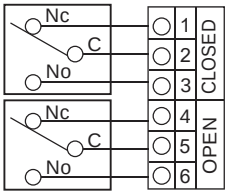


1. Loosen limit switch box cover screws and remove cover.
2. Rotate actuator to full counterclockwise position. Valve is on fully open or closed position.
3. Lift up bottom cam and turn until switch is activated and then release. Engage cam back onto the splined retainer. Spring will maintain cam engagement.
4. Rotate actuator to full clockwise position.Valve is on fully closed or open position.
5. Push down top cam and turn until switch is activated and then release. Engage cam back onto the splined retainer. Spring will maintain cam engagement.
6. Place cover on limit switch box and tighten.

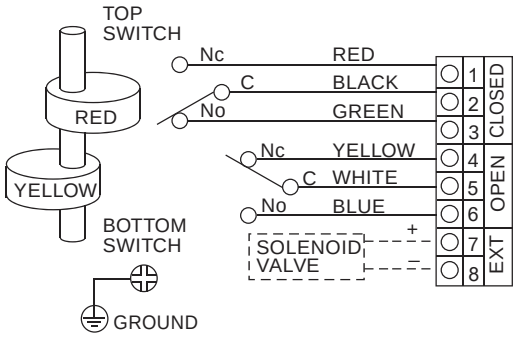


机械开关接线图 / Mechanical Switches Wiring diagram

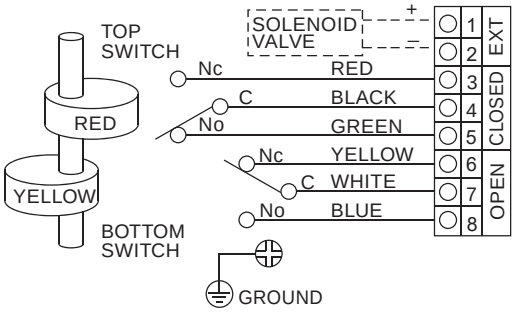
ALS-105
2SPDT Mechanical Switches Wiring



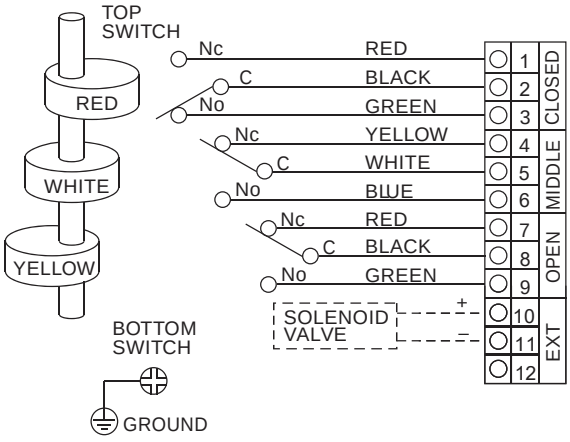
ALS-200/206/300/400M2
2SPDT Mechanical Switches Wiring



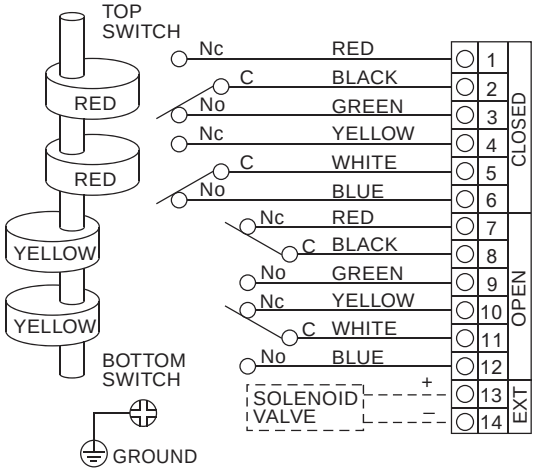
ALS-500/600M2
2SPDT Mechanical Switches Wiring



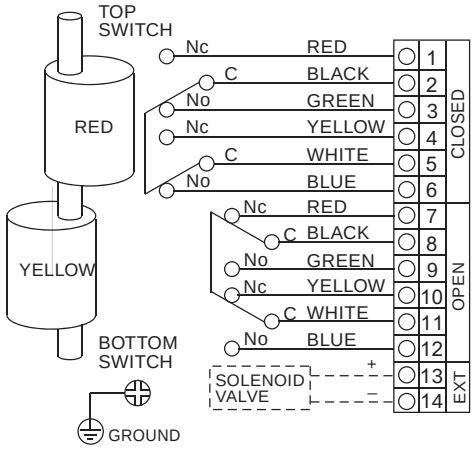
ALS-206/300/400/500/600M3
3SPDT Mechanical Switches Wiring



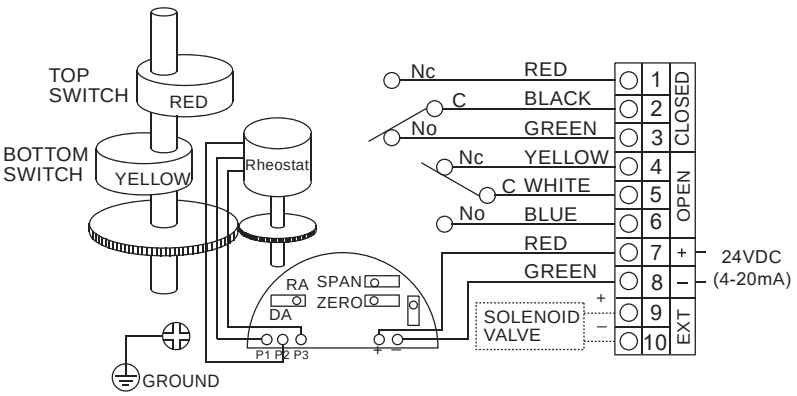
ALS-206/300/400/500/600M4
4SPDT Mechanical Switches Wiring



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

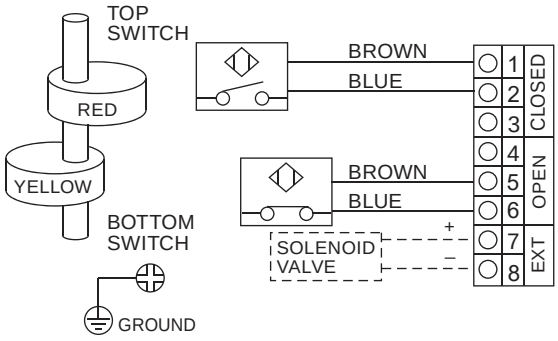


ALS-300/400M2T
2SPDT Mechanical Switches Wiring

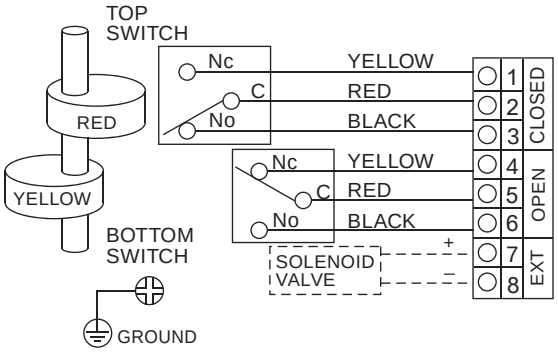


接近开关接线图 / Proximity Inductive Sensors Wiring diagram

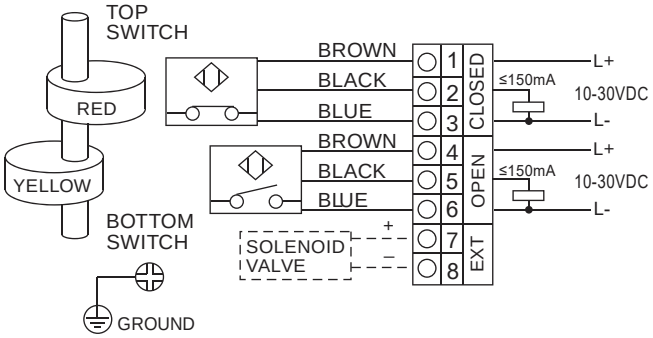
ALS200/206/300/400/500/600PP22/PA22
NC (2-Wire) Inductive Sensors



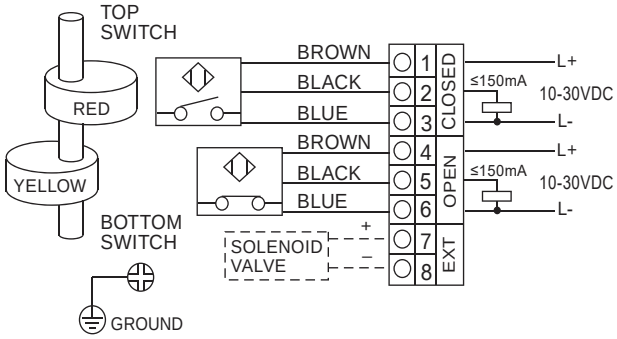
ALS200/206/300/400500/600QA23
NC (3-Wire) Magnet Sensors



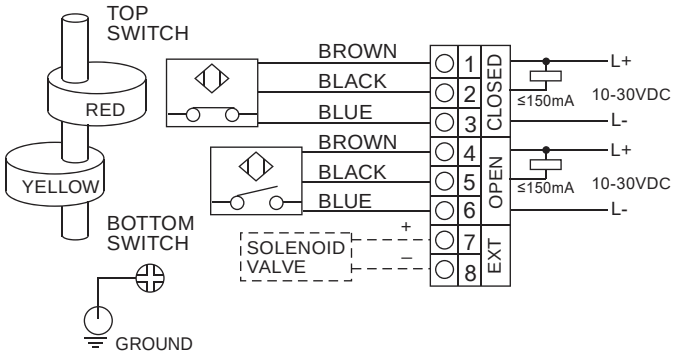
ALS200/206/300/400/500/600PA23
PNP NO (3-Wire) Inductive Sensors



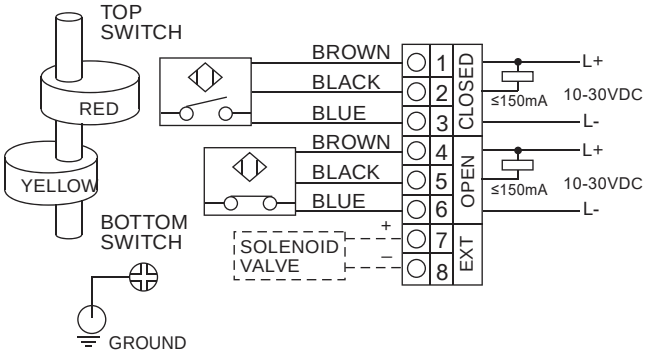
ALS200/206/300/400/500/600PA23
PNP NC (3-Wire) Inductive Sensors



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支架/ISO Brackets

选项材料:

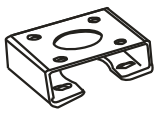
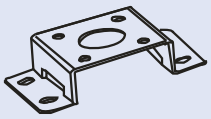
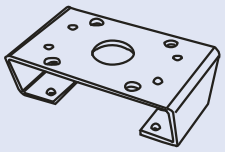
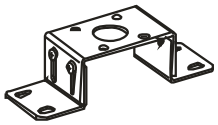
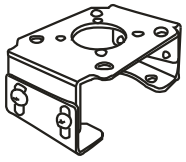
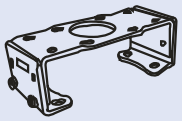
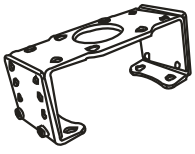
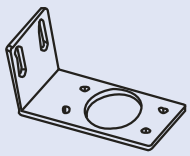
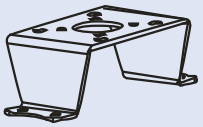
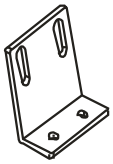
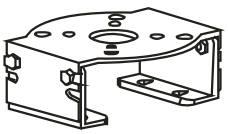
(1) 碳钢（环氧树脂涂层）

(2) 不锈钢304

Materials for option:

(1) Carbon Steel with Epoxy coated

(2) Stainless steel 304

型号 Model No.	图片 Photo	适用 Application		型号 Model No.	图片 Photo	适用 Application	
MB0.8		25× 50 H:20	ALS-200	MB4.3		30×80-130 H:20~30	ALS-300
MB1.0		30×80 H:20 30×80 H:30	ALS-200 ALS-200	MB3.2		30×80 H:20	ALS-300 ALS-400 ALS-500 ALS-600
MB1.1		30×130 H:30~50	ALS-200	MB3.3		30×80-130 H:20~30	ALS-300 ALS-400 ALS-500 ALS-600
MB2.3		30×80 -130 H:20~30	ALS-200	MB3.4		30×80 H:20	ALS-300 ALS-400 ALS-500 ALS-600
MB1.3		30×80 -130 H:20~50	ALS-100	MB3.5		30×80 H: 30	ALS-300 ALS-400 ALS-500 ALS-600
MB3.0		30 ×80 H:20~30	ALS-300	MB3.6		30×130 H: 30	ALS-300 ALS-400 ALS-500 ALS-600
MB3.1		30×130 H:30~50	ALS-300	MB3.7		30×80-130 H:20~ 30 H:50	ALS-300 ALS-400 ALS-500 ALS-600

可选指示器/Indicators for option



圆形(标准)
Dome(Standard))



平顶
Flat



圆柱形
Cylinder

可选指示器
Indicators for option



Red-Yellow 90°dome indicator(Standard)



Red-Yellow 90°flat indicator (Standard)



Red-Green 90°flat indicator



Scale dome indicator



Scale flat indicator



Linear flat indicator



30°flat indicator



45°flat indicator



60°flat indicator



Three way “L” flat indicator



Three way “T” flat indicator



120°flat indicator



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