

BOX HOT LIMIT SWITCH

- **Explosion proof ExdIIBT6**
- **Weather proof IP67(NEMA4,4X)**
- **Compact and Beautiful Design**
Aluminum die-casting housing and powder coated
- **Bolts on Visual Position Indicator**
Secure waterproof
- **"Quick-Set" Cam**
Spring loaded splined cam
No need to adjust again after initial setting
Easy setting without tool
- **Multipoint terminal strip**
Standard 8 points and enough strips for connection
- **Dual cable entries**
2X1/2NPT (Standard)
M20X1.5 , PG13.5, PT1/2,PF1/2(Option)
- **Captive cover bolts**
No worry to loose bolts while cover opens
- **Easy mounting**
NAMUR standard stainless steel shaft and bracket

LIMIT SWITCH



DESCRIPTION

The APL series limit switch box offers uncompromising standards of safety, reliability, and value. It is designed to operate on quarter turn pneumatic actuators, and is rugged enough for industrial applications.

Four innovative models make up the full line of valve monitoring systems, the APL200, APL300, APL400, APL500 series. Each model offers local visual display with remote switch signaling for continuous flow indication.



The APL200 series limit switch box with position indicator provides open to close switch signaling and continuous visible rotational degree monitoring of quarter turn valves. The rugged and compact design is best suited for small ball valve assemblies, or any place where space is limited.



The APL300 series limit switch box with position indicator provides open to close switch signaling and continuous visible rotational degree monitoring of quarter turn valves. The larger footprint allows for a larger position indicator that can be seen from a distance. This switch is suited for ball, butterfly, or plug valve applications.



The APL400 series limit switch box with position indicator provides open to close switch signaling and continuous visible rotational degree monitoring of quarter turn valves. The larger footprint allows for a larger position indicator that can be seen from a distance. This switch is designed suitable for valve and actuators in ExdIIBT6 hazardous area application.



The APL500 series limit switch box with position indicator provides open to close switch signaling and continuous visible rotational degree monitoring of quarter turn valves. The larger footprint allows for a larger position indicator that can be seen from a distance. This switch is designed suitable for valve and actuators in ExdIICT6 hazardous area application.

SPECIFICATION

| Model | APL200 Series | |
|--------------------|-----------------------------------|------------------------------------|
| | Standard | Option |
| Weather proof | IP67(NEMA4,4X) | |
| Explosion proof | / | |
| Ambient temp | -25°C~85°C | |
| Conduit | 1/2"NPT | M20×1.5 , PG13.5, PT1/2,PF1/2 |
| Terminal strip | 8 | |
| Position indicator | 0~90° Open-Yellow Close-Red | 0~180° Open-Yellow Close-Red |
| Switches | 2-SPDT Mechanical:5A 125/250VAC | / |
| Potentiometer | / | |
| Feedback | / | |
| Shaft | 17mm | Customer free |
| Coating | Polyester powder coating(black) | Red, Green, Blue, Yellow, etc |
| Bracket | 30x80 H:20 | 30x80 H:30, 30x130 H:30 |

| Model | APL300 Series | |
|--------------------|--|--|
| | Standard | Option |
| Weather proof | IP67(NEMA4,4X) | |
| Explosion proof | / | |
| Ambient temp | -25°C~85°C | |
| Conduit | 1/2"NPT | M20×1.5 , PG13.5, PT1/2,PF1/2 |
| Terminal strip | 8 | 9~24 |
| Position indicator | 0~90° Open-Yellow Close-Red | 0~180° Open-Yellow Close-Red |
| Switches | 2-SPDT Mechanical:15A 125/250VAC Proximity sensor: P&F NJ2-V3-N | Mechanical: SPST, DPDT Proximity sensor: Autonics. PS17-5DNU P&F NJ4-12GM-N NBB2-V3 Reed type proximity sensor |
| Potentiometer | 1K ohm | 0~5K ohm, 0~10K ohm |
| Feedback | 4~20mA | 20~4mA |
| Shaft | 27mm | Customer free |
| Coating | Polyester powder coating(black) | Red, Green, Blue, Yellow, etc |
| Bracket | 30x80 H:20~30 | 30x130 H:30~50 |

| Model | APL400 Series | |
|--------------------|---|--|
| | Standard | Option |
| Weather proof | IP67(NEMA4,4X) | |
| Explosion proof | ExdIIBT6 | |
| Ambient temp | -25°C~85°C | |
| Conduit | 3/4"NPT | PT3/4,PF3/4 |
| Terminal strip | 8 | 9~24 |
| Position indicator | 0~90° Open-Yellow Close-Red | 0~180° Open-Yellow Close-Red |
| Switches | 2-SPDT Mechanical: 15A 125/250VAC Proximity sensor: P&F NJ2-V3-N | Mechanical: SPST, DPDT Proximity sensor: Autonics. PS17-5DNU P&F NJ4-12GM-N NBB2-V3 Reed type proximity sensor |
| Potentiometer | 1K ohm | 0~5K ohm, 0~10K ohm |
| Feedback | 4~20mA | 20~4mA |
| Shaft | 27mm | Customer free |
| Coating | Polyester powder coating(black) | Red, Green, Blue, Yellow, etc |
| Bracket | 30x80 H:20, 30x130 H:30 | 30x80 H:30, 30x130 H:20 |

| Model | APL500 Series | |
|--------------------|---|--|
| | Standard | Option |
| Weather proof | IP67(NEMA4,4X) | |
| Explosion proof | ExdIICT6 | |
| Ambient temp | -25°C~85°C | |
| Conduit | 3/4"NPT | PT3/4,PF3/4 |
| Terminal strip | 8 | 9~24 |
| Position indicator | 0~90° Open-Yellow Close-Red | 0~180° Open-Yellow Close-Red |
| Switches | 2-SPDT Mechanical: 15A 125/250VAC Proximity sensor: P&F NJ2-V3-N | Mechanical: SPST, DPDT Proximity sensor: Autonics. PS17-5DNU P&F NJ4-12GM-N NBB2-V3 Reed type proximity sensor |
| Potentiometer | 1K ohm | 0~5K ohm, 0~10K ohm |
| Feedback | 4~20mA | 20~4mA |
| Shaft | 27mm | Customer free |
| Coating | Polyester powder coating(black) | Red, Green, Blue, Yellow, etc |
| Bracket | 30x80 H:20, 30x130 H:30 | 30x80 H:30, 30x130 H:20 |

ORDERING

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EnclosureType

- 2: Weather proof IP67(Mini-type)
- 3: Weather proof IP67(General-type)
- 4: Explosion proof(ExdIIBT6)
- 5: Explosion proof(ExdIICT6)

Position indicator

Switch type

Mechanical switch

- 10: 2-SPDT
- 11: 3-SPDT
- 12: 4-SPDT
- 13: 2-SPST
- 14: 2-DPDT
- 15: 2-SPDT +Potentiometer
- 16: 2-SPDT +Signal unit(4-20mA)

Proximity sensor

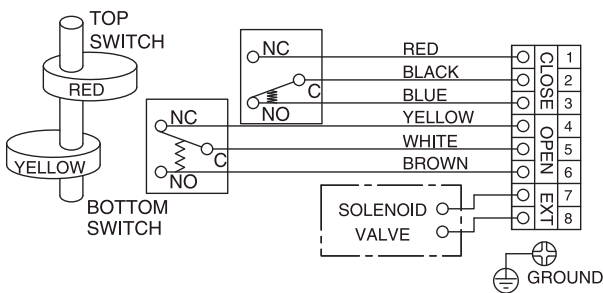
- 20: P&F NJ2-V3-N
- 21: Autronics.PS17-5DNU
- 22: P&F NJ4-12GM-N
- 23: NBB2-V3

Reed type proximity sensor

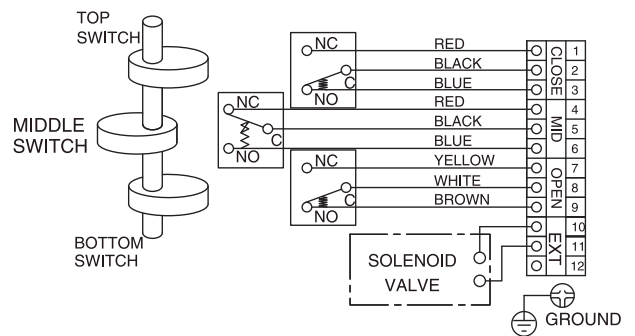
- 30: General type
- 31: High temp(up to +100°C)

WIRING

MECHANICAL SWITCH(2 SPDT)



MECHANICAL SWITCH(3 SPDT)



PROXIMITY SWITCHES

