

XCL Series Switchbox

Product
Information

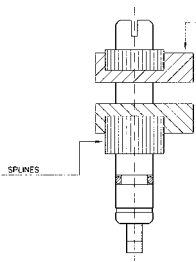
ATEX II 2 G  EEx d IIB T5



- A. Tool-free adjustment*
- B. Pre-wired terminal strip*
- C. Dual 3/4 NPT or M25x1,5 conduit entries*



Features



Quick-set cams

Tool free adjustment of switch trip is accomplished simply by pushing or pulling the cam and rotating it to the new position. Cams are spring-loaded and splined to maintain switch setting in any installed position.

Limit switches

Multiple options available:
Electromechanical, Amplified proximity,
Namur proximity, SPDT, DPDT.
Up to 4 pcs possible.

Cable entries

Dual 3/4 NPT (XCL) or M25x1,5 (XML) conduit entries as standard.

Terminal strip

Pre-wired, multi-point terminal strip with extra strip as standard for optional solenoid valve.

Position indicator

Bolt-on Dome indicator for high contrast wide angle viewing. A flat lid without indicator is also available.

Captive Cover Screws

Permit calibration without potential for losing screws.

Watertight protection

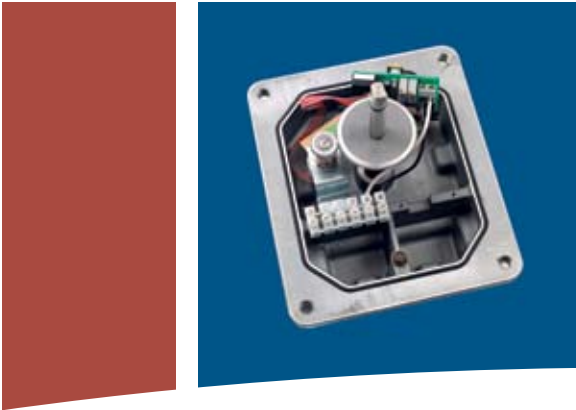
IP 66 / NEMA 4X

ATEX approved

Explosion proof ATEX II 2 G EEx d IIB T5



XCL series switchbox is designed to be directly and easily mounted onto actuators having connections according to Namur VDI/VDE 3845, in order to reduce switchbox/actuator mounting time.



4–20 mA Transmitter



2 x SPDT switches Type M1




2 x SPDT Sabre Switch

Switch Options

| Switch Option | Manufacturer | Part Number | Load Capacity |
|-----------------------------|-----------------------|---------------|--|
| M1 - SPDT Mechanical | Honeywell MicroSwitch | V7-1C13D8-201 | 15A (1/2 HP) at 125 VAC / 1/2A at 125 VDC |
| MG - SPDT Gold Mechanical | Honeywell MicroSwitch | V7-1D11D8-201 | 1A at 125 VAC / 50 mA at 24 VDC |
| M3 - DPDT Mechanical | Cherry | E19-00A | 15A (3/4 HP) at 125 VAC |
| MB - DPDT Mechanical | Licon | 22-104 | 10A (1/2 HP) at 125 VAC |
| P4 - SPST Proximity | Aleph | PS-6132 | 0.35A at 140 VAC / 1A at 50 VDC (50 W Max.) |
| P5 - SPDT Proximity | Hamlin | 59135-030 | 0.25A at 120 VAC / 0.25A at 28 VDC (3 W Max.) |
| PE - SPDT Sabre Proximity | Flowserve | XA0199 | 1A at 120 VAC / 1A at 24 VDC (25 W Max.) |
| PP - SPDT Phazer Proximity | Flowserve | XA0155 | 3A at 120 VAC / 2A at 24 VDC (100 W Max.) |
| PT - SPST BRS Proximity | Flowserve | XA0157 | 3A at 120 VAC / 0.5 at 24 VDC |
| N8 - Solid State Proximity | Pepperl + Fuchs | NJ2-V3-N | |
| NP- Solid State Proximity | Pepperl + Fuchs | SJ3.5-N | NAMUR Sensor Output / 5-25 VDC Supply Load Current <1 mA (w/Target) / > 3 mA w/out Target |
| NQ - Solid State Proximity | Pepperl + Fuchs | NJ4-12GK-N | |
| NR - Solid State Proximity | Pepperl + Fuchs | NJ4-12GM40-E1 | PNP Sinking / 200 mA max. Current / 10-60 VDC |
| NS - Solid State Proximity | Pepperl + Fuchs | NJ4-12GM40-E2 | NPN Sourcing / 200 mA max. Current / 10-60 VDC |
| NJ - Solid State Proximity1 | IFM Efector | IN-2002-ABOA | 0.35A at 250 VAC / 0.1A at 250 VDC |
| NU - SPDT GO Proximity | GO | 35-13319-A1A | 4A at 120 VAC / 3A at 24 VDC |



ATEX

XCL series switchbox is ATEX approved. Explosion proof ATEX II 2 G  EExd IIB T5 and can be installed in hazardous areas.

Materials

Cam shaft: AISI 304

Housing: Aluminium, powder coated

Screws, washers, springs, rings: AISI 303

Dome Indicator: Polycarbonate

Label: Polyester



AS-Interface (AS-i)

X series can be equipped with optional AS-i communication capabilities. This technology offers a very simple, flexible and cost effective network system.

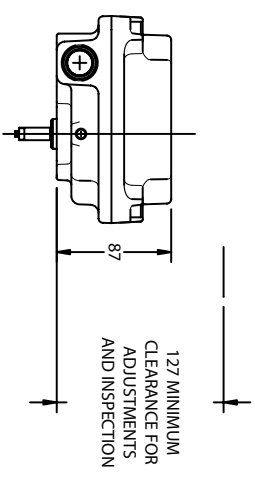
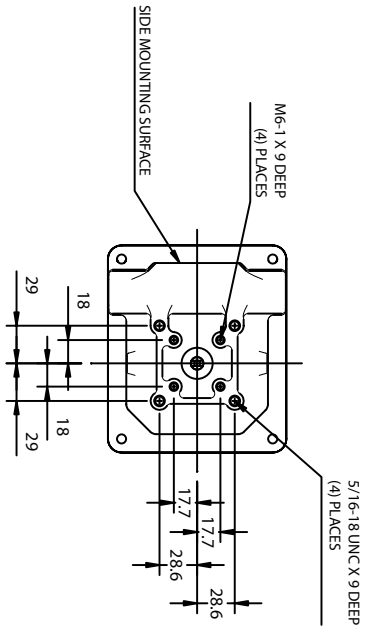
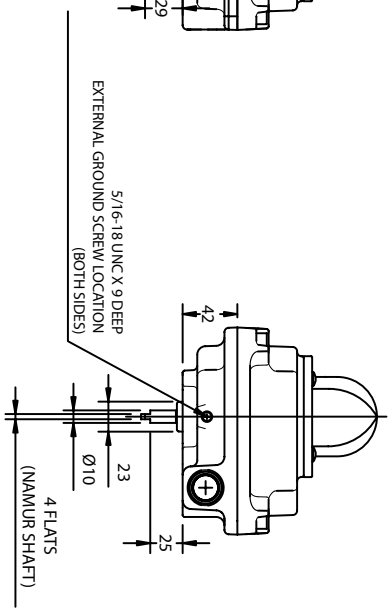
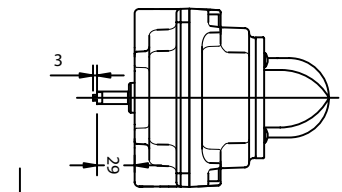
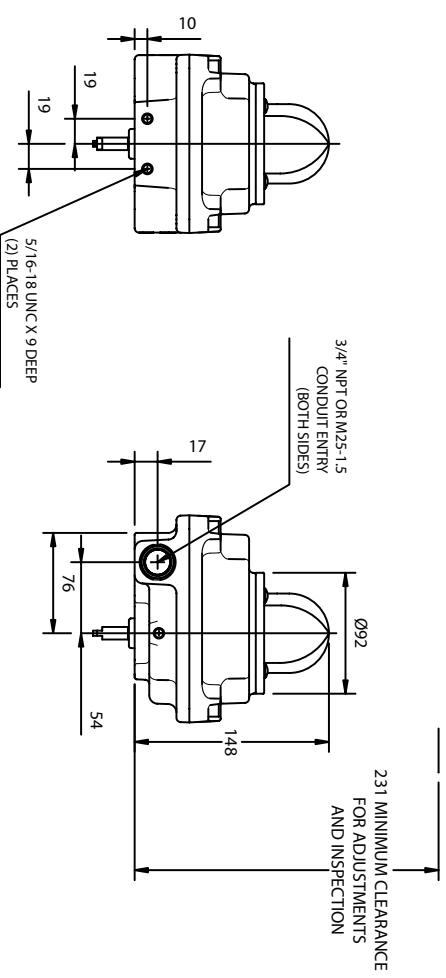
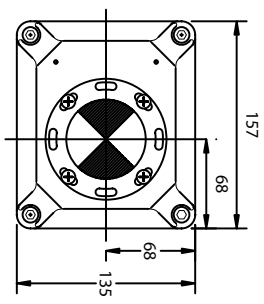
XCL Series Coding

| | | |
|----------------------------------|-----|---|
| Brand sticker | 0 | Automax |
| | P | PMV |
| | N | Namur VDI/VDE 3845 |
| Shaft | XCL | 2 x 3/4 NPT |
| Connections (cable entry) | XML | 2 x M25 x 1,5 |
| | 1 | Flat cover without indicator |
| Indicator option | U | Dome, Red/Green |
| | 0 | 0 switches |
| Qty of switches | 1 | 1 switch |
| | 2 | 2 switches |
| | 4 | 4 switches |
| Switch options | M1 | SPDT Mechanical switches 250VAC 10A |
| | MG | SPDT Mechanical switches gold plated |
| | M3 | DPDT Mechanical Cherry |
| | MB | DPDT Mechanical Licon |
| | P4 | SPST proximity |
| | P5 | SPDT proximity |
| | PE | Sabre SPDT proximity |
| | PP | Phazer II SPDT proximity |
| | PT | BRS SPST Phazer II proximity |
| | N8 | P+F NJ2 V3 N (Namur) |
| | NQ | P+F NJ4-12GK-N (Namur) |
| | NR | P+F 12GM40-E1 (3 wire NPN NO) |
| | NS | P+F 12GM40-E2 (3 wire PNP NO) |
| | NP | P+F SJ 3,5-N (Namur) |
| | NJ | IFM IN -2002-ABOA |
| | NU | GO proximity 35-13319-A1A |
| | FZ | AS-i controller card 2,0 |
| Certificate | 14 | General Purpose |
| | 19 | ATEX II 2 G EEx d IIB T5 |
| Analog Output | 0 | None |
| | T | 4-20 mA transmitter |
| | D | 180 deg 4-20 mA transmitter |
| | A | 0-1k Ohm Pot |
| | B | 0-5k Ohm Pot |
| | C | 0-10k Ohm Pot |
| Wiring options | 0 | None |
| Minimun extra terminals | 2 | 2 (standard) |
| | 4 | 4 (Optional) |
| | 6 | 6 (Optional, not possible for all switch options) |
| Acessories | 0 | None |
| | L | Cover bolts lubricated with grease |
| | P | 180° Pot (for analog options: A, B, C) |
| | V | Viton O-rings |
| Housing/Surface treatment | 0 | Black polyester powder coat |

Example

PNXCLU2M1-1900-200

Dimensions (mm)






Artnr: 31047, Rätt Grafiska AB Ordnr: 19378, Revisionsnr: 2005/01



Hazardous Locations 

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ATEX Demko 04 Atex 0416173

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