

# FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

We offer a full range of valve & instrumentation products & services, with our product range representing leading technologies & brands:

**Flow:** Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

**Temperature:** Temperature Probes & Thermowells, Temperature transmitters, Temperature Regulators & Temperature Displays

**Level:** Level Transmitters & Switches

**Pressure:** Pressure Gauges & Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

**Precision Pneumatics:** Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

**Valves:** Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

**Services:** Repair, Calibration, Panel Build, System Design & Commissioning

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## SK - SQ limit switch box series

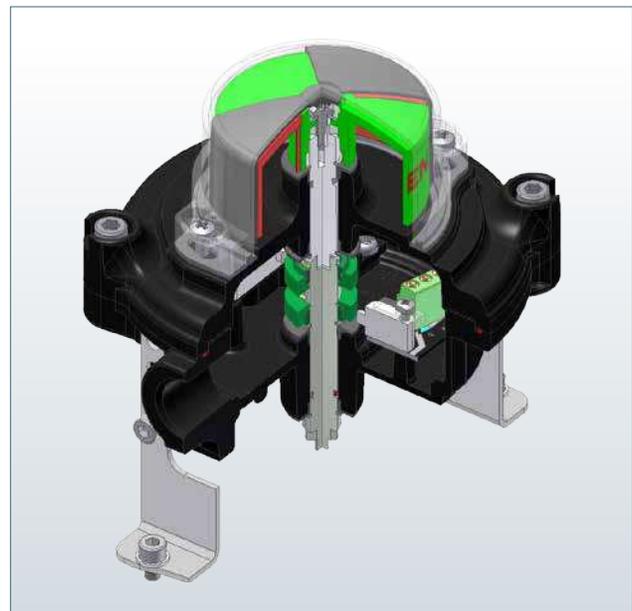
Compact limit switch box, designed for hazardous areas, provides a visual and electrical remote position feedback on automated valves.

Available in either die cast aluminum or 316L stainless steel, the explosionproof enclosure matches the Exd IIC T6 standards. The SK - SQ switch box series offer a ready to mount solution thanks to the integrated Namur mounting kit.

The ideal compact solution for oil and gas, both on-shore and off-shore, and petrochemical industries.

### Features

- Twin shaft design, ensuring a complete sealed device. The shaft is split in two parts, each fitted and sealed into the body and cover for the best weather insulation even during opening operation
- Suitable for arctic application, down to -55 °C
- Integrated mounting kit for Namur actuators
- Two cable entries, either metric or imperial
- Enhanced corrosion resistance due to the thick polyester powder coating on aluminum housings
- 316 L stainless steel housing for the maximum protection in hostile and corrosive environments
- Easy wiring through the terminal PCB board
- NOVA V3™ switch option ensures extreme durability and high power switching capabilities
- Concentric flame path design providing a self-centering system aligning shafts for a precise engagement
- Captive bolts on the screwed lid



*Linking the Process  
with the Control Room*

# Product Specification

## Technical Data:

### Materials

- Copper free aluminum body and cover with polyester powder coating
- AISI 316 Stainless steel body and cover with electro-polished finishing
- Stainless steel fasteners and shafts

### Approvals

ATEX, IECEX, EAC, CCOE, INMETRO

Ex II 2GD Ex d IIC T4/T5/T6 Gb

Ex tb IIIC T135/T100/T85°C Db

Ta: -55 °C ≤ Ta ≤ 105 °C / 80 °C / 60 °C

### UL:

Class I Division 1 Groups B, C, D Division 2 Groups A, B, C, D

Class II Division 1 Groups E, F, G Division 2 Groups F, G

### SIL certificate:

Up to SIL 3 certified by TÜV

### Protection rating:

IP 66 / 67

IP 66 / 68 up to 15 meters for 100 hours

### Cable entries options:

Two cable entry M20 or 1/2" NPT

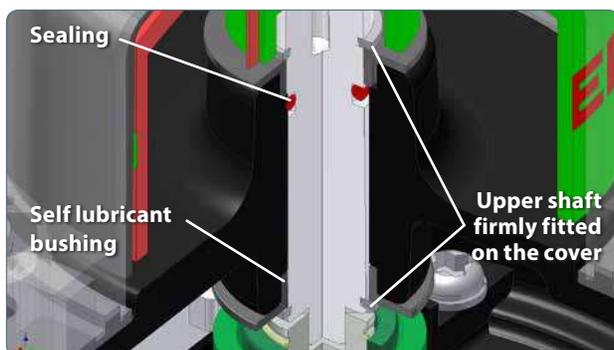
### Temperature:

-20 °C +80 °C as standard temperature range (depending on switch selection)

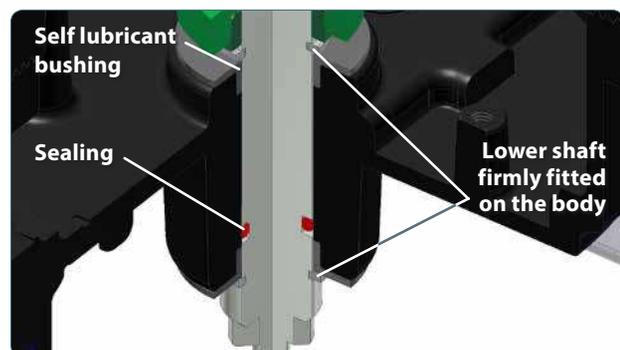
-55 °C +105 °C available on request

## Twin shaft design features

- The shaft is split in two parts; both parts fitted and sealed respectively on body and cover
- During opening and closing the grease remains in place ensuring a safe and smooth operation
- Self lubricant bushing on both sides aligning shafts and hedging in o-rings
- The indicator is hardly connected to the upper shaft, avoiding any matching and aligning issue



Upper shaft



Lower shaft

## Soldo switch and sensors options:

### NOVA V3™ N1

- Proximity hermetically sealed snap acting SPDT switch
- High power loop: rating up to 5A @ 250 VAC - 5A @ 28 VDC
- Temperature range -50 °C , +95 °C



### NOVA V3™ N3

- Proximity hermetically sealed snap acting SPDT switch
- High power loop: rating up to 1A @ 250 VAC - 1A @ 30 VDC
- Temperature range -50 °C , +95 °C



### NOVA V3™ N4

- Proximity hermetically sealed snap acting DPDT switch
- High power loop: rating up to 5A @ 250 VAC - 5A @ 28 VDC
- Temperature range -50 °C , +95 °C



### REED C4

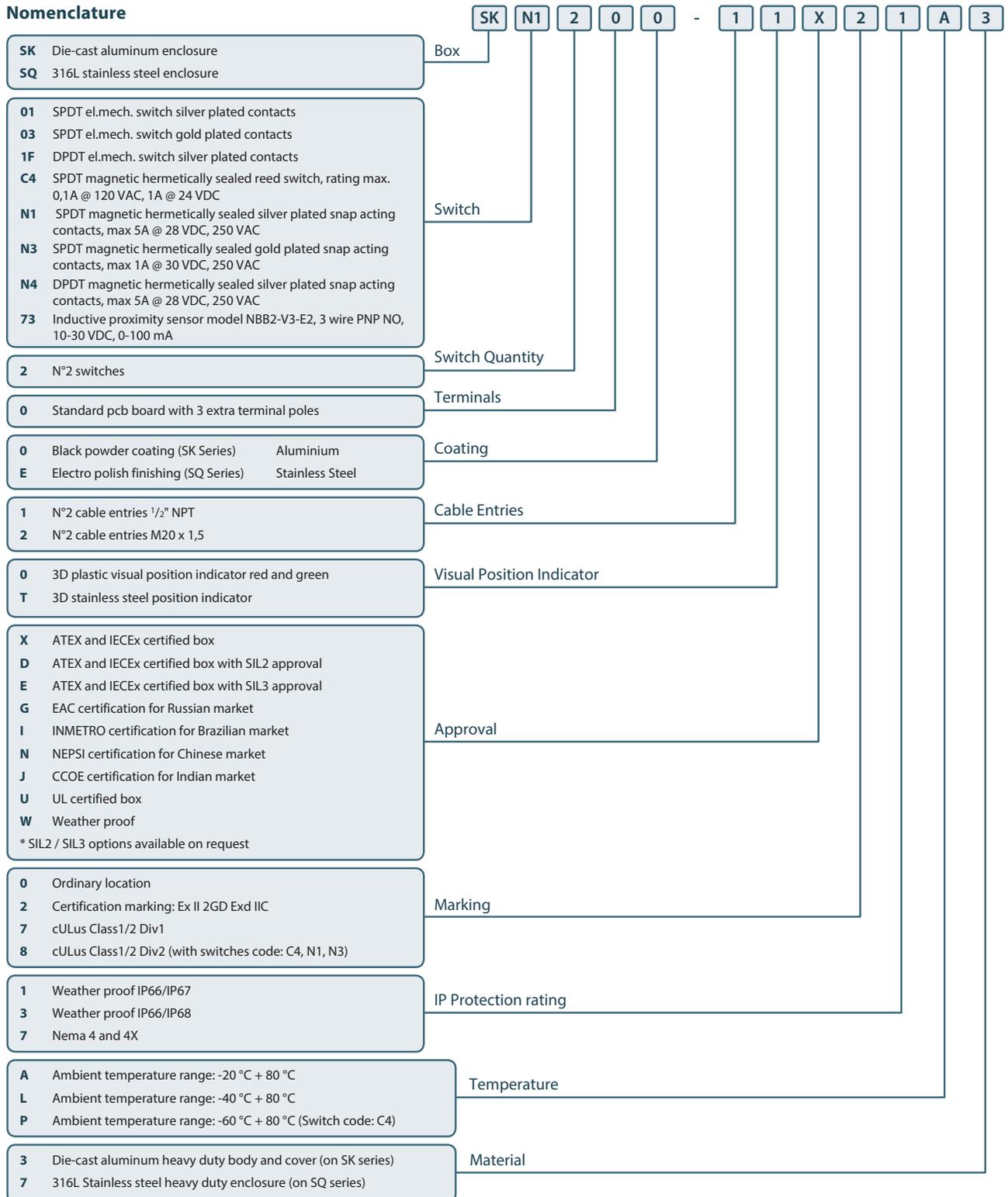
- Proximity hermetically sealed reed SPDT switch
- Inert gas contact chamber
- Rating up to 1A @ 24 VDC
- Temperature range -60 °C , +100 °C



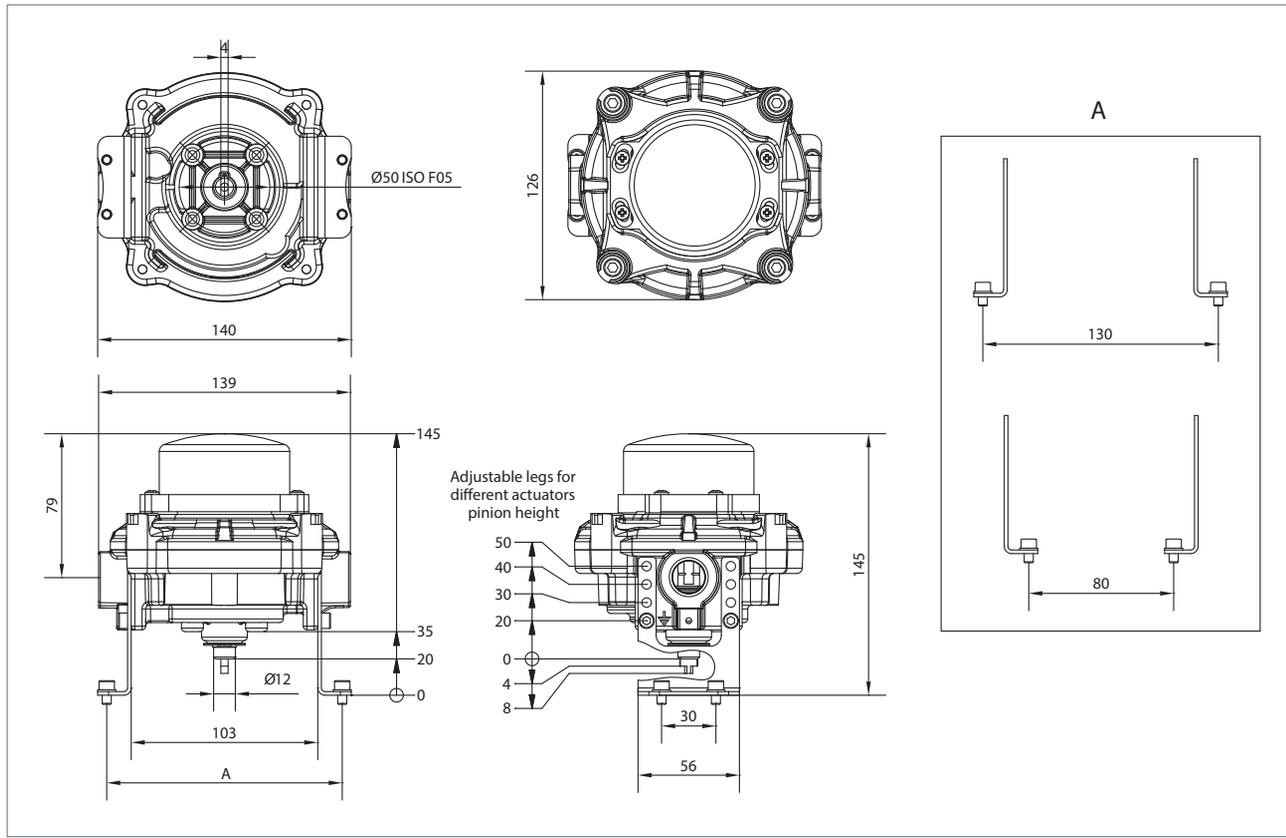
More options available on request.

# Product Ordering Matrix

## Nomenclature



## Dimensional Data



### Cable entry dimensions

Code	Entry A	Entry B
1	1/2" NPT	1/2" NPT
2	M20 x 1,5	M20 x 1,5



[www.soldo.net](http://www.soldo.net)

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