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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 rangerepresenting leading technologies & brands:

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

Temperature: Temperature Probes & Thermowells, Temperature ransmitters, 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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Honeywell













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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.

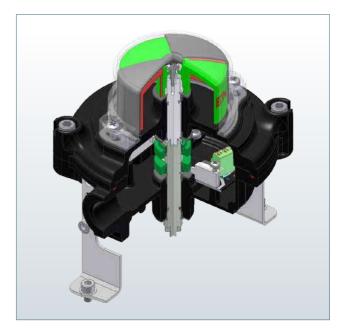
Available in either die cast aluminum or 316L stainless steel, the explosionproof enclosure matches the Exd IIC T6 standards. The SK - SQ switch box series offer a ready to mount solution thanks to the integrated Namur mounting kit.

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 electropolished finishing
- Stainless steel fasteners and shafts

Approvals

ATEX, IECEx, EAC, CCOE, INMETRO

$$\begin{split} & \text{Ex II 2GD Ex d IIC T4/T5/T6 Gb} \\ & \text{Ex tb IIIC T135/T100/T85°C Db} \\ & \text{Ta: } -55 \ ^\circ\text{C} \leq \text{Ta} \leq 105 \ ^\circ\text{C} \ / \ 80 \ ^\circ\text{C} \ / \ 60 \ ^\circ\text{C} \end{split}$$

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:

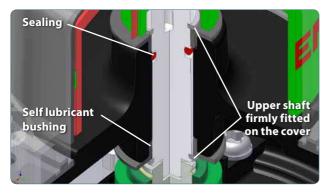
Two cable entry M20 or 1/2" NPT

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

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

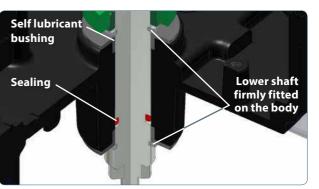
NOVA V3[™] N4

- 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.











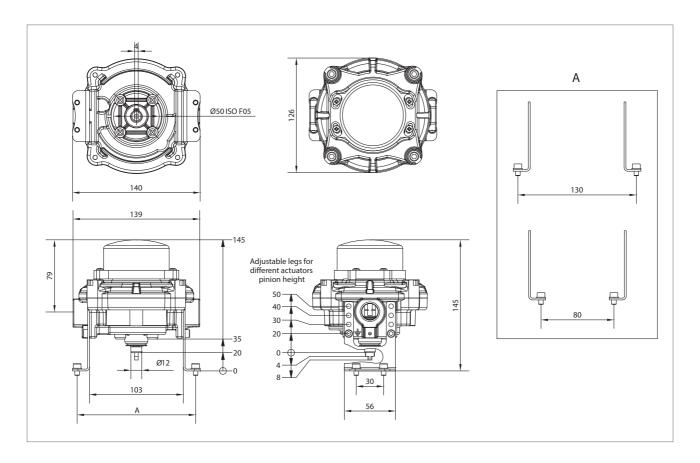




Product Ordering Matrix

Nom	enclature	SK N1 2 0 0 - 1 1 X 2 1 A 3
SK SQ	Die-cast aluminum enclosure 316L stainless steel enclosure	Box
	SPDT el.mech. switch silver plated contacts SPDT el.mech. switch gold plated contacts DPDT el.mech. switch silver plated contacts SPDT magnetic hermetically sealed reed switch, rating max. 0,1A @ 120 VAC, 1A @ 24 VDC SPDT magnetic hermetically sealed silver plated snap acting contacts, max 5A @ 28 VDC, 250 VAC SPDT magnetic hermetically sealed gold plated snap acting contacts, max 1A @ 30 VDC, 250 VAC DPDT magnetic hermetically sealed silver plated snap acting contacts, max 5A @ 28 VDC, 250 VAC DPDT magnetic hermetically sealed silver plated snap acting contacts, max 5A @ 28 VDC, 250 VAC Inductive proximity sensor model NBB2-V3-E2, 3 wire PNP NO, 10-30 VDC, 0-100 mA	Switch
2	N°2 switches	Switch Quantity
0	Standard pcb board with 3 extra terminal poles	Terminals
0 E	Black powder coating (SK Series) Aluminium Electro polish finishing (SQ Series) Stainless Steel	Coating
1 2	N°2 cable entries ¹ /2" NPT N°2 cable entries M20 x 1,5	Cable Entries
0 T	3D plastic visual position indicator red and green 3D stainless steel position indicator	Visual Position Indicator
X D E G I N J U W * SIL	ATEX and IECEx certified box ATEX and IECEx certified box with SIL2 approval ATEX and IECEx certified box with SIL3 approval EAC certification for Russian market INMETRO certification for Brazilian market NEPSI certification for Chinese market CCOE certification for Indian market UL certified box Weather proof 2/ SIL3 options available on request	Approval
0 2 7 8	Ordinary location Certification marking: Ex II 2GD Exd IIC cULus Class1/2 Div1 cULus Class1/2 Div2 (with switches code: C4, N1, N3)	Marking
1 3 7	Weather proof IP66/IP67 Weather proof IP66/IP68 Nema 4 and 4X	IP Protection rating
A L P	Ambient temperature range: -20 °C + 80 °C Ambient temperature range: -40 °C + 80 °C Ambient temperature range: -60 °C + 80 °C (Switch code: C4)	Temperature
3 7	Die-cast aluminum heavy duty body and cover (on SK series) 316L Stainless steel heavy duty enclosure (on SQ series)	Material

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



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