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:


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
Easy Switch

Hazardous area limit switch box for manual valve applications. Explosionproof enclosure, in copper free aluminum or 316 stainless steel, handles the most demanding application in hostile environments.

The Easy switch box uses two magnetic sensors to provide electronic feedback to the control room. An easy to mount magnetic target operates the switches.

Unique Design Features

- Compact position indication on all manual valves
- Adaptable mounting kit for all applications
- Easily links to the valve with the durable glass reinforced magnetic holder
- Wires through the terminal PCB for easy connection
- Easy to open threaded lid design for manual removal of the cover
- One or two cable entries for versatile use
- Polyester powder coated copper free aluminium housing
- 316 stainless steel housing version for harsh environments
- NOVA V3 switch option for high power rating use.

Linking the Process with the Control Room
Product Specification

Certifications
ATEX, IECEx, EAC, INMETRO
Ex II 2GD
Ex d IIC T6/T5/T4 Gb
Ex tb IIIC T85/T100/T120 °C Db
Ta = -65 °C ≤ Ta ≤ 105 °C
SIL rating:
up to SIL 2 approval on request
UL:
Class I, Division 1 and 2, Groups A, B, C and D
Class II, Division 1 Groups E, F and G
Class II Division 2, Groups F and G
Protection rating
IP66 / 67
IP66 / 68 (15 meters for 70 hours)
Cable Entry Options
Standard – Single cable entry
Optional – Two cable entries for the following dimensions:
- M20 x 1.5
- 1/2” NPT

Switch Selection:

NOVA V3 N1
To be chosen with following requirements:
- Hermetically sealed proximity switch
- High power loop:
  Rating up to 5A @ 250 VAC - 5A @ 28 VDC
- Temperature range: -50 to +105 °C

NOVA V3 N3
- Hermetically sealed proximity switch
- Gold plated contacts
- Rating up to 1A @ 250 VAC - 1A @ 30 VDC
- Temperature range: -50 to +105 °C

REED C4
- Hermetically sealed proximity reed switch
- Inert gas contact chamber
- Rating up to 1A @ 24 VDC
- Temperature range: -60 to +105 °C

Dimensional Data

<table>
<thead>
<tr>
<th>CONTACT CONFIGURATION</th>
<th>MAGNET CARRIER</th>
<th>CONTACT FACTORY FOR BRACKET INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE CABLE ENTRY</td>
<td>Ø48 [1.89]</td>
<td>Value of diameter ‘A’</td>
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<tr>
<td>DOUBLE CABLE ENTRY</td>
<td>84 [3.31]</td>
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<td>42 [1.65]</td>
<td>Type</td>
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<td>11.5 [0.45]</td>
<td>02</td>
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Contact factory for bracket information

Value of diameter ‘A’

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<tr>
<th>Type</th>
<th>ØA</th>
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<tr>
<td>01</td>
<td>1/2” NPT</td>
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<tr>
<td>02</td>
<td>M20 x 1.5</td>
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# Product Ordering Matrix

## Nomenclature

<table>
<thead>
<tr>
<th>Switch Type</th>
<th>Rating Max</th>
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<tbody>
<tr>
<td>N1</td>
<td>Snap acting, hermetically sealed, silver contacts SPDT switch</td>
</tr>
<tr>
<td>N1</td>
<td>5A @ 250 V AC</td>
</tr>
<tr>
<td>N1</td>
<td>5A @ 28 V DC</td>
</tr>
<tr>
<td>N3</td>
<td>Snap acting, hermetically sealed, gold contacts SPDT switch</td>
</tr>
<tr>
<td>N3</td>
<td>1A @ 250 V AC</td>
</tr>
<tr>
<td>N3</td>
<td>1A @ 30 V DC</td>
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<tr>
<td>C4</td>
<td>Inert gas hermetically sealed, rhodium contacts SPDT switch</td>
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<tr>
<td>C4</td>
<td>1A @ 24 V DC</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch Quantity</th>
<th>Terminals</th>
<th>Coating</th>
<th>Cable Entries</th>
<th>Visual Position Indicator</th>
<th>Approval</th>
<th>Marking</th>
<th>IP Protection Grade</th>
<th>Temperature</th>
<th>Material</th>
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<tbody>
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<td>2 0 0</td>
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<td></td>
<td>L</td>
<td>P</td>
</tr>
</tbody>
</table>

- **ES** - Snap acting, hermetically sealed, silver contacts SPDT switch
- **N1** - 5A @ 250 V AC, 5A @ 28 V DC
- **N3** - 1A @ 250 V AC, 1A @ 30 V DC
- **C4** - 1A @ 24 V DC

- **2** - Quantity of switch
- **0** - Screw Terminal Strips
- **0** - Black powder coating Aluminium
- **E** - Electro polish finishing Stainless Steel

- **1** - N°2 1/2" NPT cable entries
- **2** - N°2 M20 x 1.5 cable entries
- **D** - N°1 1/2" NPT cable entry (standard option)
- **E** - N°1 M20 x 1.5 cable entry

- **1** - No Visual Position Indicator
- **U** - UL certification
- **S** - UL certification with SIL2 approval
- **X** - ATEX and IECEx certification
- **D** - ATEX and IECEx certification with SIL2 approval

- **2** - Certification marking: Ex II 2GD Exd IIC
- **1** - IP66 / 67 (standard option)
- **2** - IP66 / 68 (15 meters for 70 hours)

- **A** - Ambient temperature range: -20 °C to + 80 °C (standard option)
- **L** - Ambient temperature range: -40 °C to + 80 °C
- **P** - Ambient temperature range: -60 °C to + 80 °C (C4 switch only)

- **4** - Copper free aluminum body and cover
- **6** - 316 stainless steel body and cover
As part of a process of on-going product development, Soldo reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at www.soldo.net

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