

## BOX LIMIT SWITCH mod.ST2 Explosion proof ATEX/IECEX



### GENERAL INFORMATION

The Limit Switch Box SENDERTOP ST2 series is designed to provide an instant and reliable feedback signal for the position of a valve actuated or manually operated in Hazardous area. Exd Explosionproof type of protection. IP66/67 protection type.

Aluminum Enclosure and SS AISI-316

High visibility green / red status indicator.

Precise cam adjustment, through spindle system. Terminal block with 10 positions.

Electrical inputs M20x1.5 or 1/2 "NPT-F.

Possibility to mount a wide range of limit switches.

### BRACKET

NAMUR bracket for mounting on actuator with hub spacing 30x80 e 30x130, pinion h. 20 and 30mm, available on request in painted steel or stainless steel

### TECHNICAL DATA

#### Switches

- Mechanical SPDT, 10A@250VAC.
- Magnetic hermetically sealed proximity type SPDT, 3A@220VAC
- Inductives 2 wires/3 wires max 140Vdc, PNP, NPN, NAMUR

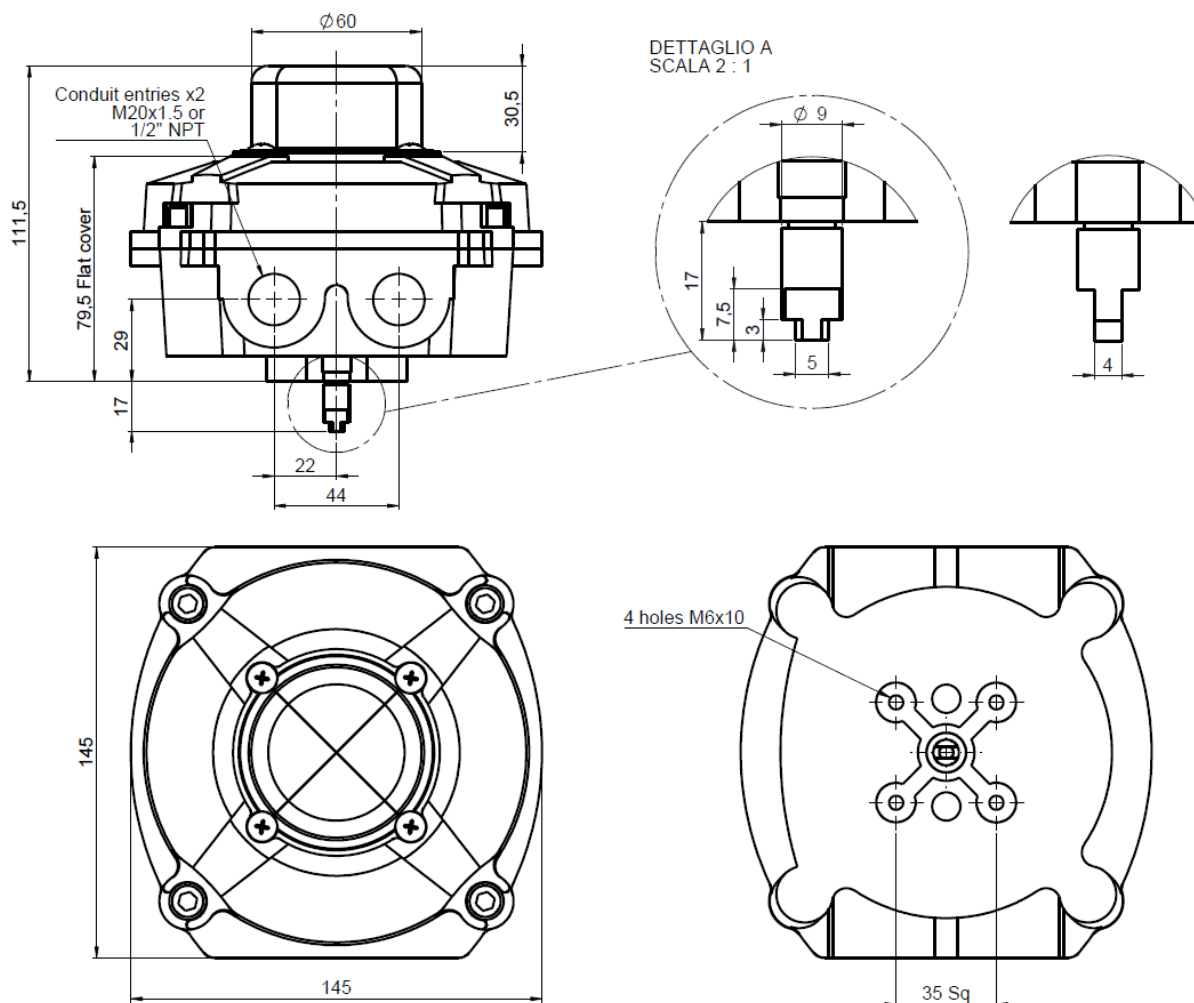
#### Enclosures

- Low copper content Aluminum with double layer of black epoxy coating.
- CF8M (AISI-316) Stainless Steel

#### Ambient temperature

- Standard : -20°C/+60°C (NBR seals)
- On request : -60°C/+60°C (Silicone seals)

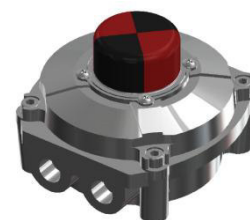
## ST2 ENCLOSURE DIMENSION



## TECHNICAL SPECIFICATIONS

### Materials of construction

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Enclosure                 | Low copper content aluminium epoxy coated / S.S. CF8M |
| Namur Shaft               | Stainless Steel                                       |
| Beacon                    | Polycarbonate & ABS                                   |
| Spring                    | Stainless Steel                                       |
| Cams                      | ABS                                                   |
| O-ring                    | NBR / Silicone                                        |
| Bolts                     | Stainless steel CF8M                                  |
| <b>Available switches</b> | Mechanical SPDT, 10A@250VAC                           |
|                           | Magnetic reed SPDT, 3A@220VAC                         |
|                           | Inductive 2 wires/3wires max 140Vdc, PNP, NPN, NAMUR  |



## HOW TO ORDER

| Housing            |                                                  |                             |   |       |   |   |    |                          |  |
|--------------------|--------------------------------------------------|-----------------------------|---|-------|---|---|----|--------------------------|--|
| ST2                | Sendertop Explosion proof                        |                             |   |       |   |   |    |                          |  |
|                    | II 2G Ex db IIC T6 Gb                            |                             |   |       |   |   |    |                          |  |
|                    | II 2D Ex tb IIIC T... °C                         |                             |   |       |   |   |    |                          |  |
|                    | Type                                             |                             |   |       |   |   |    |                          |  |
|                    | ME                                               | Mechanical switches         |   |       |   |   |    |                          |  |
|                    | IE                                               | Inductive proximity sensors |   |       |   |   |    |                          |  |
|                    | HSE                                              | Magnetic proximity switches |   |       |   |   |    |                          |  |
|                    | Conduit entries                                  |                             |   |       |   |   |    |                          |  |
|                    | N                                                | 1/2" NPT-F                  |   |       |   |   |    |                          |  |
|                    | M                                                | M20 x 1,5                   |   |       |   |   |    |                          |  |
|                    | Number of switches / sensors                     |                             |   |       |   |   |    |                          |  |
|                    | 1                                                | One                         | 3 | Three |   |   |    |                          |  |
|                    | 2                                                | Two                         | 4 | Four  |   |   |    |                          |  |
|                    | Indicator                                        |                             |   |       |   |   |    |                          |  |
|                    | VR                                               | STD, forma A, green/red     |   |       |   |   |    |                          |  |
| 2                  | Lport, forma A, 3 way                            |                             |   |       |   |   |    |                          |  |
| 3                  | Tport, forma A, 3 way                            |                             |   |       |   |   |    |                          |  |
| 4                  | arrow, forma A, 3 way                            |                             |   |       |   |   |    |                          |  |
| Enclosure material |                                                  |                             |   |       |   |   |    |                          |  |
| A                  | Alluminium, black RAL 9005                       |                             |   |       |   |   |    |                          |  |
| S                  | Stainless Steel CF8M                             |                             |   |       |   |   |    |                          |  |
| Switches / Sensors |                                                  |                             |   |       |   |   |    |                          |  |
| A                  | NS 5002 (NC, NAMUR, 2 wires, 8.2V)               |                             |   |       |   |   |    |                          |  |
| B                  | IS 5001 (NO, PNP, 3 wires, 10...30VDC)           |                             |   |       |   |   |    |                          |  |
| D                  | IS 5026 (NO / NC, PNP / NPN, 2 wires, 5...36VDC) |                             |   |       |   |   |    |                          |  |
| E                  | IS 0003 (NO, 2 wires, 20...140VAC / 10...140VDC) |                             |   |       |   |   |    |                          |  |
| F                  | NJ2 V3 N (NC, NAMUR, 2 wires, 8.2V)              |                             |   |       |   |   |    |                          |  |
| G                  | NBB2 V3 E2 (NO, PNP, 3 wires, 10...30VDC)        |                             |   |       |   |   |    |                          |  |
| H                  | NBB3 V3 Z4 (NO, 2 wires, 5...60VDC)              |                             |   |       |   |   |    |                          |  |
| L                  | NBB2 V3 E0 (NO, NPN, 3 wires, 10...30VDC)        |                             |   |       |   |   |    |                          |  |
| N                  | NCB2 V3 N0 (NC, NAMUR, 2 wires, 8.2V)            |                             |   |       |   |   |    |                          |  |
| P                  | IS 0004 (NC, 2 wires, 20...140VAC / 10...140VDC) |                             |   |       |   |   |    |                          |  |
| 0                  | OMRON D3V or CHERRY D44 (SPDT, 250VAC)           |                             |   |       |   |   |    |                          |  |
| S                  | HONEYWELL V7 (SPDT, 250VAC)                      |                             |   |       |   |   |    |                          |  |
| M                  | HSR 834W (SPDT, 4@240VAC/DC)                     |                             |   |       |   |   |    |                          |  |
| T                  | NBB2-V3-E2-3G-3D (NO, PNP,3 wires, 10...30VDC)   |                             |   |       |   |   |    |                          |  |
| Special options    |                                                  |                             |   |       |   |   |    |                          |  |
| LT                 | Low temperature (-60°C)                          |                             |   |       |   |   |    |                          |  |
| 1                  | Circuit board 7-8-7-9                            |                             |   |       |   |   |    |                          |  |
| 2                  | Circuit board 7-8-9-10                           |                             |   |       |   |   |    |                          |  |
| ST2                | ME                                               | M                           | 2 | VR    | A | 0 | LT | Mod. numb.=ST2MEM2VRA0LT |  |

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