



## ELECTRONIC SENSORS ANGULAR WITH HALL EFFECT MODEL STL1 DUAL

### Main characteristics:

Mechanical and electric regulations: FMVSS-124; 2004/108CE; EN 55011:2009 class B; EN 61000-4-(2:2009; 4:2004; 5:2006; 11:2009)

Environmental characteristics: -40→+85°C - 10 MinCycles@60 cycles/min - IP67 with resin coating option or IP45 with coating option

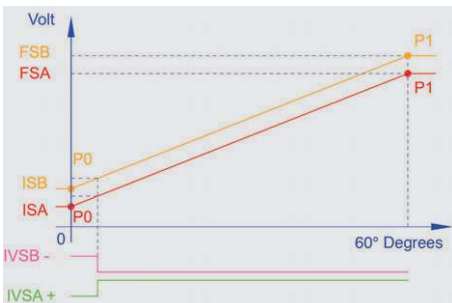
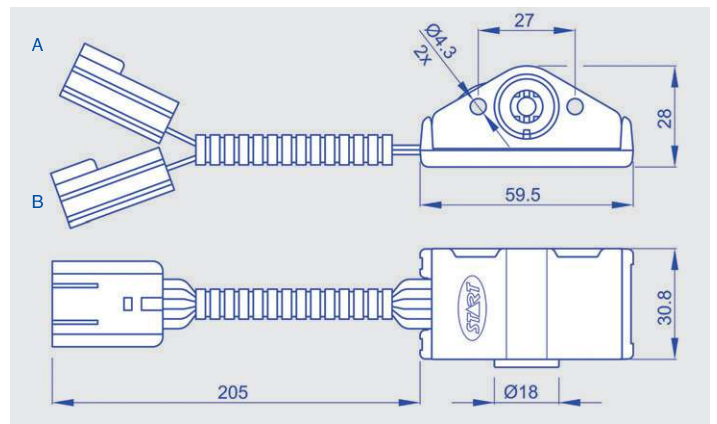
Power input and consumption: 5 Vdc @40 mA typ

Double angle signal output (A and B): analog or PWM or Canbus SAE J1939

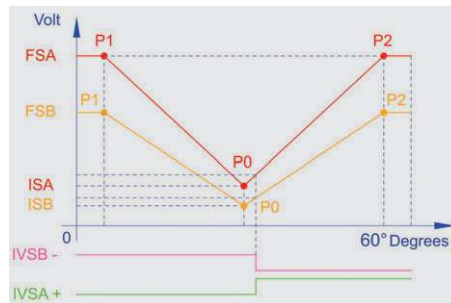
Double validation (IVS A and B): free contacts, Vmax 60 Vdc, Amax 500 mA, insulation 1500 Vac

Configurable parameters: operative angle; angle signal IS and FS; threshold and polarity IVS; rotation direction

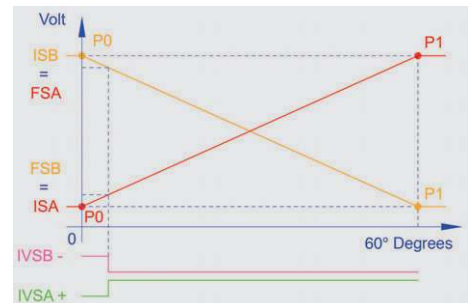
Connections to the field: 10 pole Delphi connector or free cables or specification agreed with the customer



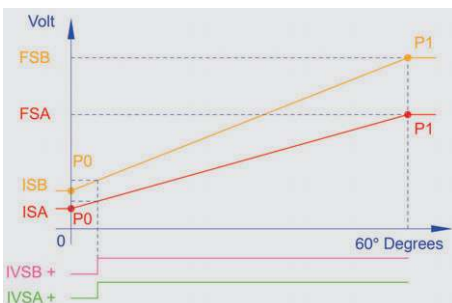
1) Example of two parallel ascending analog outputs, with positive IVSA and negative IVSB validations



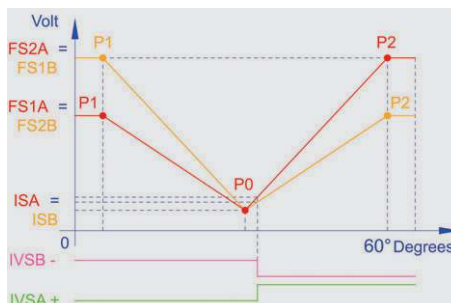
2) Example of two bidirectional symmetrical analog outputs, with positive IVSA and negative IVSB validations



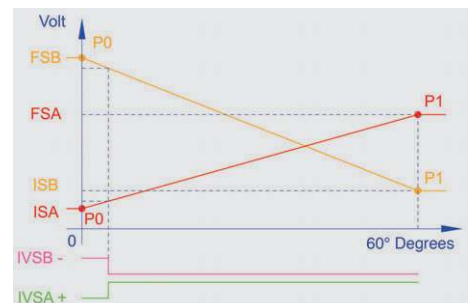
3) Example of two crossed analog outputs, with positive IVSA and negative IVSB validations, with values ISA=FSA and FSA=ISB



4) Example of two discordant ascending analog outputs, with positive IVSA and positive IVSB validations



5) Example of two asymmetrical bidirectional analog outputs, with positive IVSA and negative IVSB validations



6) Example of two crossed analog outputs, with positive IVSA and negative IVSB validations



## ELECTRONIC SENSORS ANGULAR WITH HALL EFFECT AND ORDER FORM MODEL STL1 DUAL

| Characteristics          | Options   |                                    |                  | Standard         |
|--------------------------|---|------------------------------------|------------------|------------------|
| Angle signal output A    | Analog 0,2→4,9 Vdc  | PWM Fr=3,82 Khz,<br>D_cycle 0→100% | Canbus SAE J1939 | Analog           |
| Beginning scale signal A | 0,2→4,9 Vdc   | D cycle 4→96%                      | % Range 0 → 100% | 0,5 Vdc          |
| Full-scale signal A      | 0,2→4,9 Vdc   | D cycle 4→96%                      | % Range 0 → 100% | 4,5 Vdc          |
| Validation (IVS) A       | Positive  | Negative                           | Absent           | Positive         |
| IVS angle (% stroke) A   | 1→99%   | 1→99%                              | 0                | 5%               |
| Program A                | Start30 or Customer's specification                       |                                    |                  | Start30          |
| Angle signal output B    | Analog 0,2→4,9 Vdc  | PWM Fr=3,82 Khz,<br>D_cycle 0→100% | Canbus SAE J1939 | Analog           |
| Beginning scale signal B | 0,2→4,9 Vdc   | D cycle 4→96%                      | % Range 0 → 100% | 0,5 Vdc          |
| Full-scale signal B      | 0,2→4,9 Vdc   | D cycle 4→96%                      | % Range 0 → 100% | 4,5 Vdc          |
| Validation (IVS) B       | Positive  | Negative                           | Absent           | Positive         |
| IVS angle (% stroke) B   | 1→99%   | 1→99%                              | 0                | 5%               |
| Program B                | Start30 or Customer's specification                       |                                    |                  | Start30          |
| Power supply A and B     | 5 Vdc   |                                    |                  | 5 Vdc            |
| Protection A and B       | Silicone filler or Coating                                |                                    |                  | Silicone filler  |
| Connectors A and B       | Delphi 10 pole or Free cables or Customer's specification |                                    |                  | Delphi 10 pole   |
| Operative angle A and B  | 20°→100°  |                                    |                  | 60°              |
| Rotation direction       | Clockwise or Counterclockwise                             |                                    |                  | Counterclockwise |

To order: compose, please, your product code inserting the boldfaced code corresponding to the chosen option in the proper square.

|           |             |  |  |  |  |  |  |  |  |  |  |  |
|-----------|-------------|--|--|--|--|--|--|--|--|--|--|--|
| STL1 DUAL | CONNECTOR A |  |  |  |  |  |  |  |  |  |  |  |
|           | CONNECTOR B |  |  |  |  |  |  |  |  |  |  |  |

