



ELECTRONIC SENSORS ANGULAR WITH HALL EFFECT MODEL STL2D-HP

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

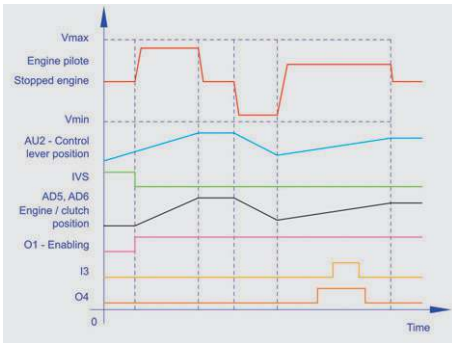
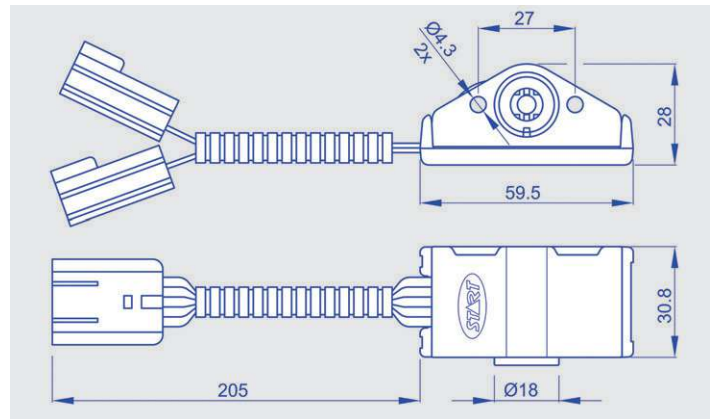
Power input and consumption: 5 Vdc or 8→36 Vdc @30 mA typ

Signals I/O (angle+GP): analog or PWM or Canbus SAE J1039 – 6 InD or OutD or AnIn Unip or AnIn Diff

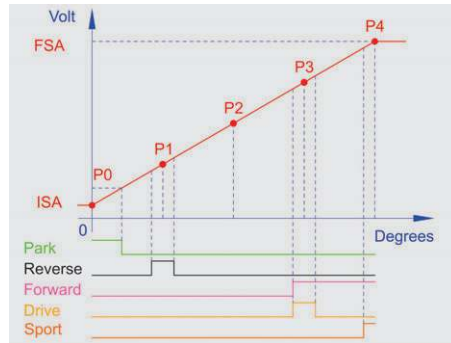
Validation (IVS) and OutD: free contacts, Vmax 60 Vdc, Amax 500 mA, insulation 1500 Vac

Configurable parameters: operative angle; angle signal IS and FS; threshold and polarity IVS; number and type I/O; activation angles I/O; rotation direction

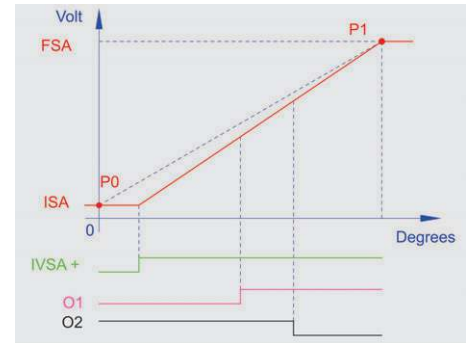
Connections to the field: 10 pole Delphi connector or free cables or specification agreed with the customer



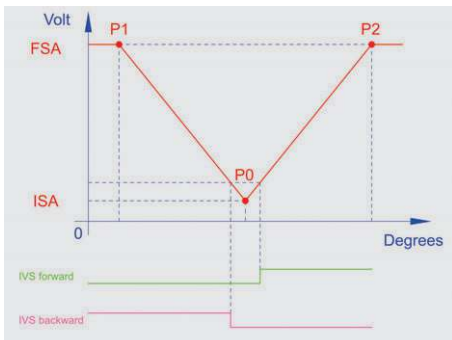
1) Operating example of motorized clutch



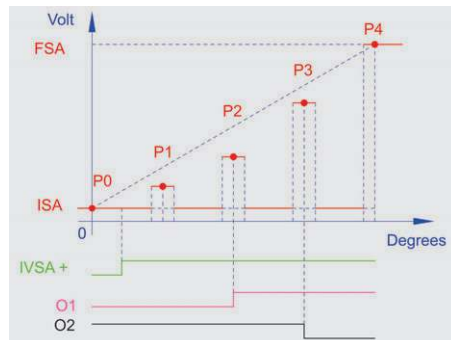
2) Example of analog output for the management of the automatic for electric car



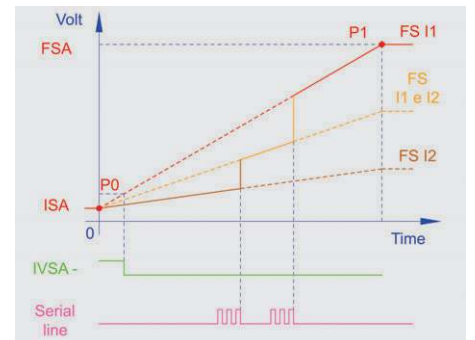
3) Example of analog output with variation of the validation management



4) Example of bidirectional analog output, with two validations, for forward / reverse drive gear management



5) Example of analog output at levels with return to IS value



6) Example of analog output at variable slope, controlled by serial line



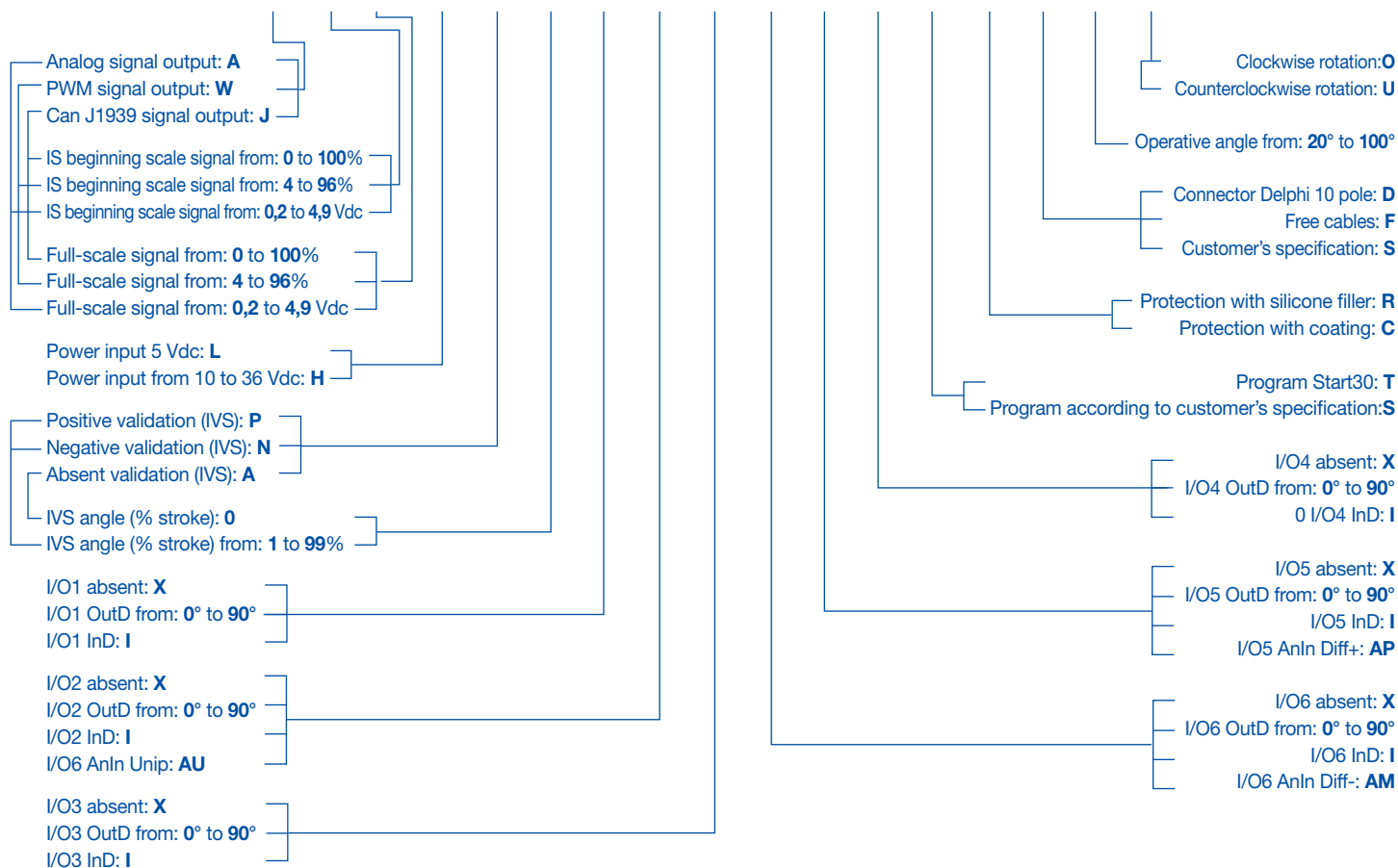
ELECTRONIC SENSORS ANGULAR WITH HALL EFFECT AND ORDER FORM MODEL STL2D-HP

| Characteristics | Options | | | Standard |
|------------------------|---|--------------------|------------------|----------------------|
| Angle signal output | Analog 0,2→4,9 Vdc | PWM D_cycle 0→100% | Canbus SAE J1939 | Analog |
| Beginning scale signal | 0,2→4,9 Vdc | D cycle 4→96% | % Range 0 → 100% | 0,5 Vdc |
| Full-scale signal | 0,2→4,9 Vdc | D cycle 4→96% | % Range 0 → 100% | 4,5 Vdc |
| Power supply | 5 Vdc or 8→36 Vdc | | | 8→36 Vdc |
| Validation (IVS) | Positive or Negative or Absent | | | Positive |
| IVS angle (% stroke) | 1→99% or 0 | | | 10% |
| I/O 1 | OutD (0→100°) or Absent or InD (GP) | | | 15° |
| I/O 2 | OutD (0→100°) or Absent or InD (GP) or AnIn Unip (GP) | | | 30° |
| I/O 3 | OutD (0→100°) or Absent or InD (GP) | | | 45° |
| I/O 4 | OutD (0→100°) or Absent or InD (GP) | | | 60° |
| I/O 5 | OutD (0→100°) or Absent or InD (GP) or AnIn Diff+ (GP) | | | 30° |
| I/O 6 | OutD (0→100°) or Absent or InD (GP) or AnIn Diff- (GP) | | | 30° |
| Program | Start30 or Customer's specification | | | LCE_84 |
| Protection | Silicone filler or Coating | | | Silicone filler |
| Connectors | Delphi 10 and 8 pole Free cables Customer's specification | | | Delphi 10 and 8 pole |
| Operative angle | 20°→100° | | | 60° |
| Rotation direction | Clockwise or Counterclockwise | | | Counterclockwise |

N.B. For different and specific needs, Start s.r.l. is at your disposal.

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

STL2D-HP



"GP" means General Purpose, that is to say according to customer's specification