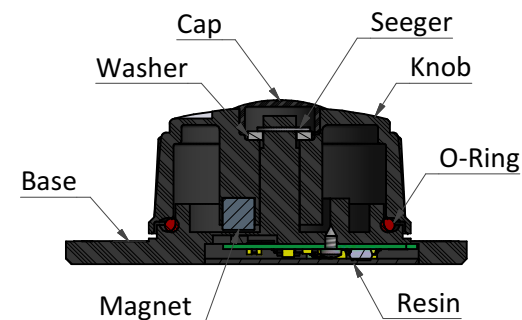
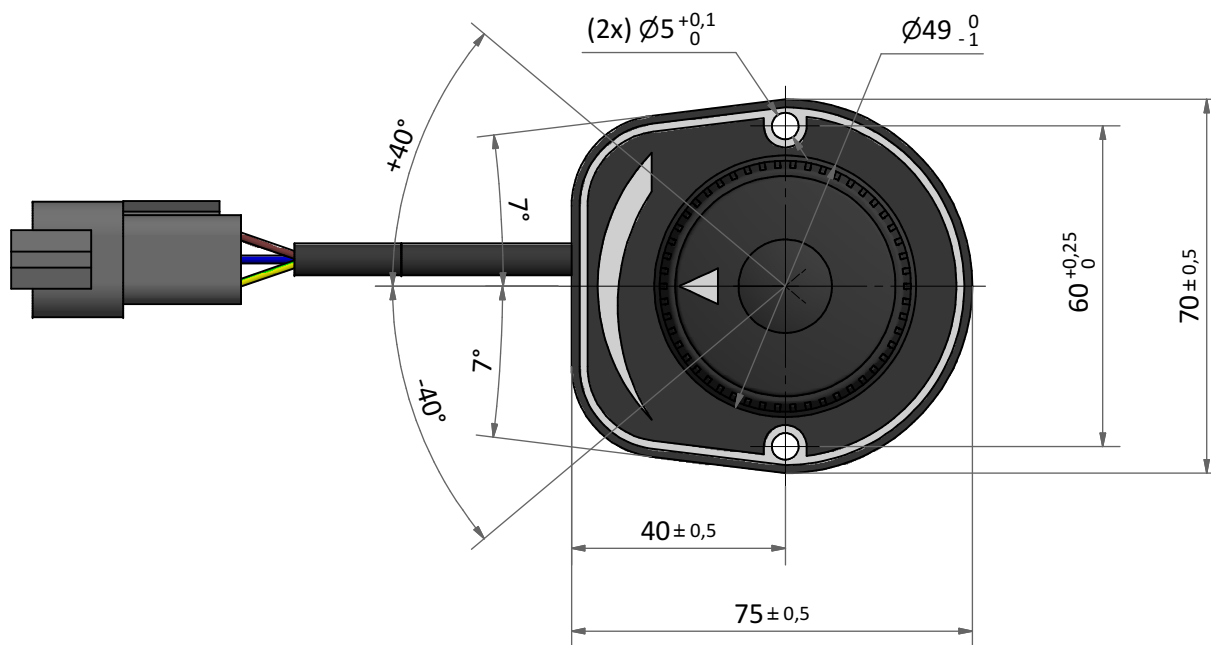
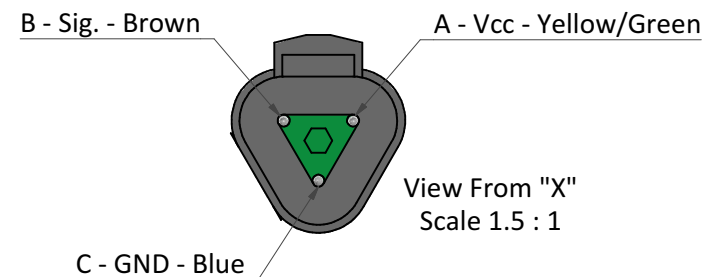
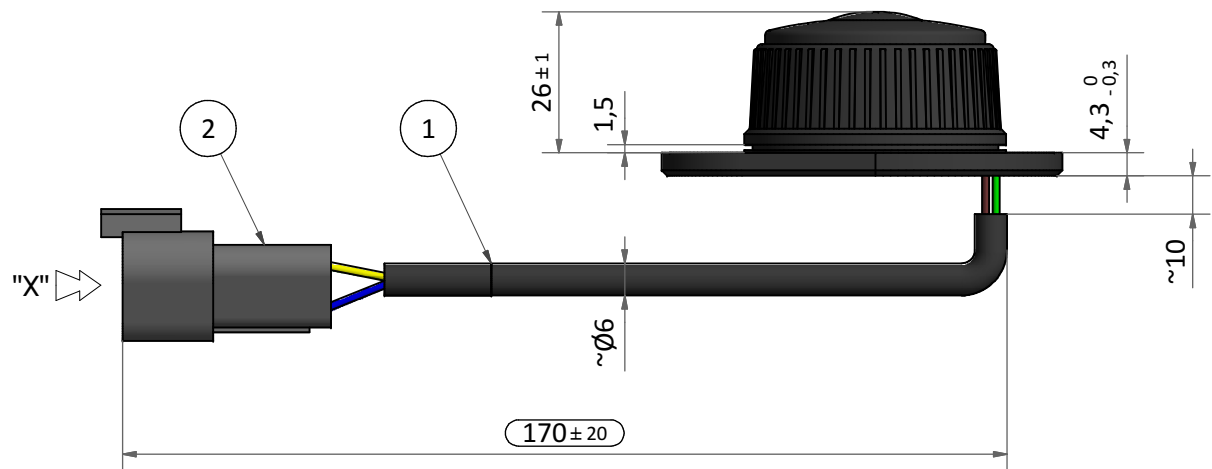


Ref.	Description	Operating Temperature
1	HT 105° Cable	-25 / +105
2	Deutsch DT04-3P 3 Pins Connector	-55 / +125



Rev.	Date	Sign.	Review Description
1	25/09/2015	FS	Modified Output Graph
2	07/05/2018	ML	Replaced Old El.Board With Melexis Vrs.

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Part Number: **AA020585**

Description: **Accelerator Knob ±40° Electrical Vehicles**

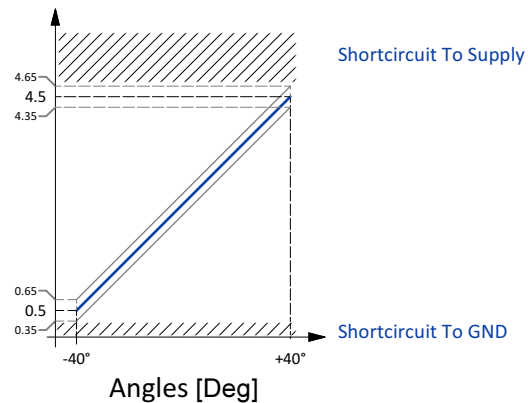
Designed: 30/06/2015 *Fabio Scali* Scale: 1 : 1 (A3 format)

Checked: 07/05/2018 *Roberto La Capruccia* Dimensions without tolerance indication: **ISO 2768 - m**

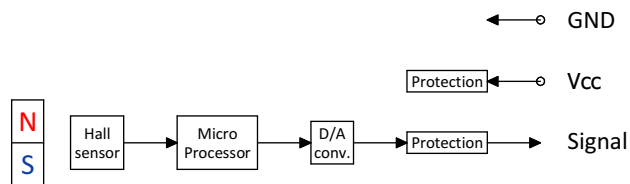
Approved: 07/05/2018 *Roberto La Capruccia* Units: mm Page 1 / 2

■ Output Signal ①

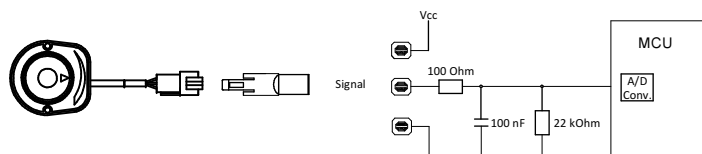
Signal (V) @Vin =
10V ÷ 30V



■ Functional Scheme



■ Typical Application ②



■ Technical Specifications ②

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	10V Min ÷ 30V Max	PDV Rev. 3 - P. 5.1;
	Output Current	20mA Max	PDV Rev. 3 - P. 5.5;
	Supply Current (no load)	30mA Max	PDV Rev. 3 - P. 5.2;
	Output Signal	Linear 0,5V@-40° ÷ 4,5V@+40°	-
	Overload Protection	24mA For 1h (50 mA)	PDV Rev. 3 - P. 5.6;
	Overvoltage Protection	36V For 1h	PDV Rev. 3 - P. 5.7;
	Temperature Operating Voltage	30V @ 80°C For 1h	PDV Rev. 3 - P. 5.8;
	Reverse Polarity Protection	-30V For 1h (-36 V)	PDV Rev. 3 - P. 5.3;
	Shortcircuit Protection	To Ground For 5' ; To Supply For 5'	PDV Rev. 3 - P. 5.4;
	Insulation Resistance	1000MΩ@500V	PDV Rev. 3 - P. 5.10;
	Dielectric Rigidity	750V@50Hz For 60s	PDV Rev. 3 - P. 5.11;
	ESD Protection	±8kV Contact; ±15kV Air	EN 61000-4-2;
	Transient Voltage Protection	Pulses 1, 2A, 2B , 3A , 3B , 4	ISO 7637-2 ; ISO 16750-2 (2012)
	Load Dump Transient	Test A (V Supply 24V)	ISO 16750-2 (2012)
	Linearity	<±1%	-
Environmental	Resolution	12 bit	-
	Maximum Load Recommended Output	>220 Ohm	-
	Operating Temperature	-30°C ÷ +80°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30;
	Storage Temperature	-40°C ÷ +110°C	IEC 60068-2-14; IEC60068-2-1; IEC60068-2-2; IEC60068-2-30;
	Degree Of Protection	IP67	IEC 60529;
	Vibrations Resistance - Random	f=10Hz@PSD=1.44g ² /Hz; f=100Hz@PSD=3.85 g ² /Hz; f=1000Hz@PSD=3.85g ² /Hz; f=2000Hz@PSD=0.96g ² /Hz; 3 Axes - 24h for Axis	IEC 60068-2-6; ENS 0310 Rev J;
	Vibrations Resistance - Sine	(5÷12.87)Hz@displacement=±15mm, (12.87÷200)Hz@diss±15mm@5g, 1Octave/min, 20 Sweep Cycles	IEC 60068-2-6;ISO 15998;
	EMC Compatibility - Magnetic Field Immunity	15Hz ÷ 150 kHz	ISO11452-8:2007;
	EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
Mech.	Body Material	Nylon 6.6 GF	-
	Tightening Torque	7 Nm	-