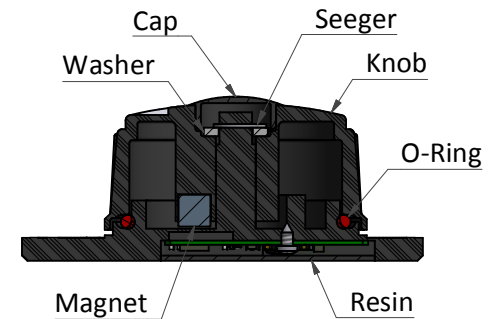
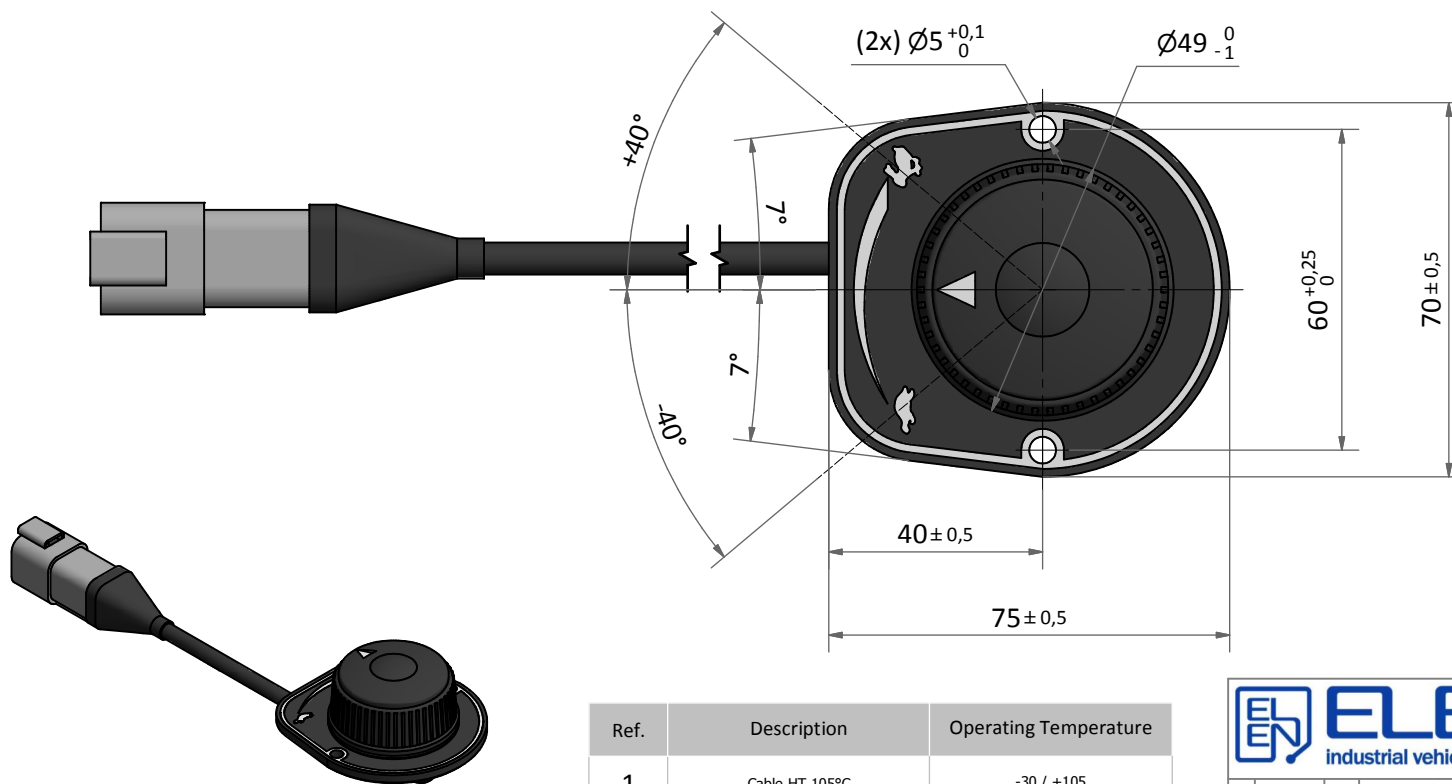
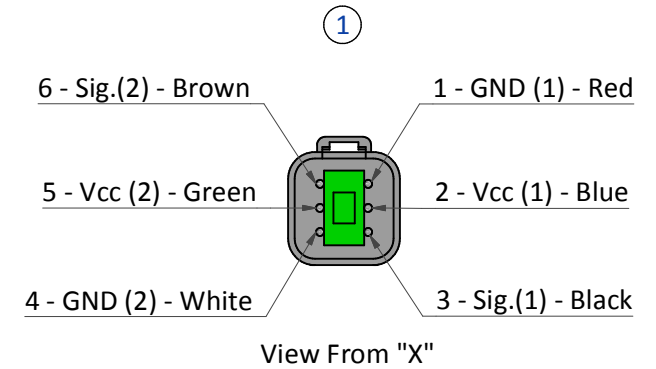
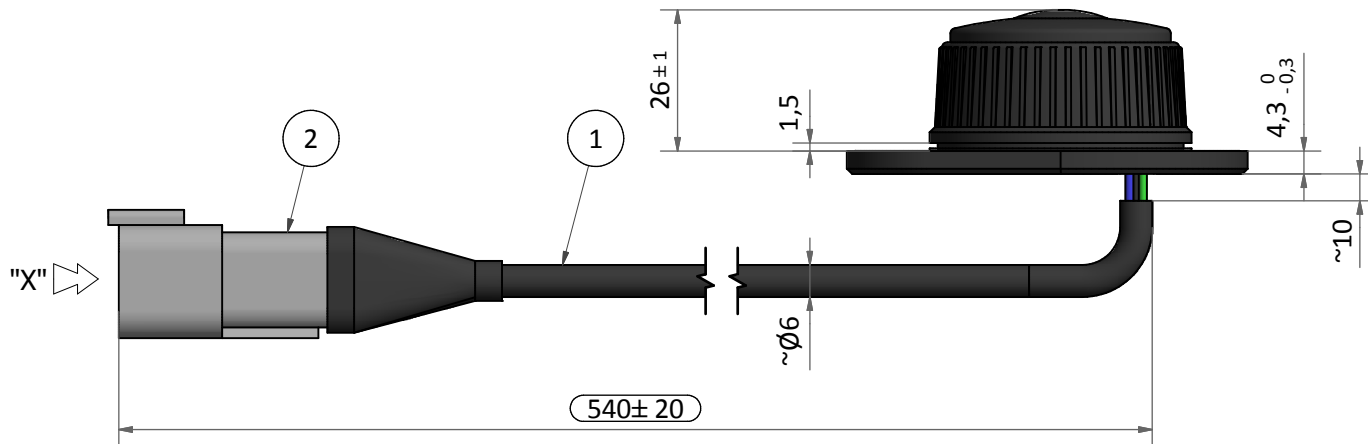


- Hall Effect Accelerator Knob



Ref.	Description	Operating Temperature
1	Cable HT 105°C	-30 / +105
2	Deutsch DT04-6P 6 Pins Connector	-55 / +125

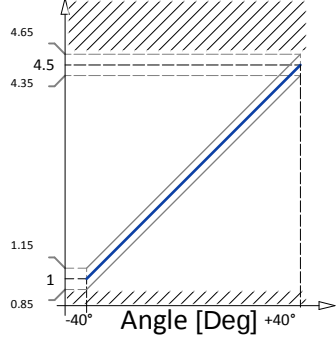


Rev.	Date	Sign.	Review Description
1	19/05/2021	A.DES	Changed Cable

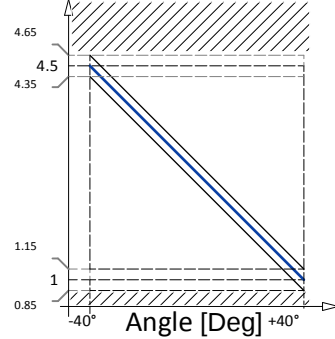
www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)	
Part Number:		AA020590-4	
Description:		Knob Double Signal $\pm 40^\circ$	
Designed	13/03/2015	Fabio Scali	Scale : 1 : 1 (A3 format)
Checked	19/05/2021	M.CANAVESI	Dimensions without tolerance indication: ISO 2768 - m
Approved	19/05/2021	M.CANAVESI	 Units mm Page 1 / 2

Output Signal

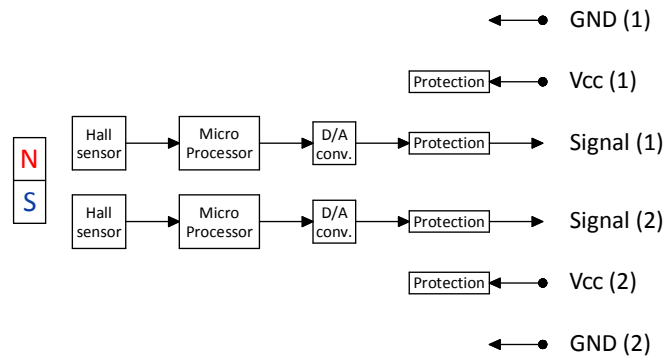
Signal 1 (V)
@Vin = 5V



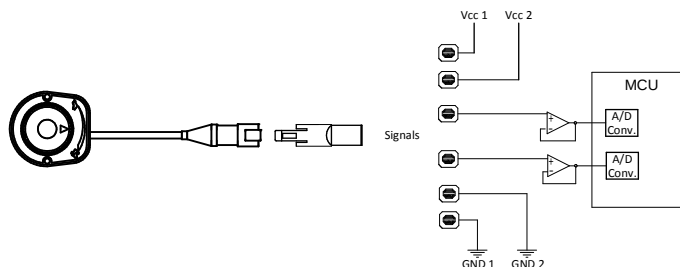
Signal 2 (V)
@Vin = 5V



Functional Scheme



Typical Application



Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	5V ±5%	PDV Rev. 3 - P. 5.1;
	Output Current	20 mA Max	PDV Rev. 3 - P. 5.5;
	Supply Current (No Load)	30 mA Max	PDV Rev. 3 - P. 5.2;
	Output Signal (1)	Linear Out 1: 0,5 ÷ 4.5V (2,5V @0°)	-
	Output Signal (2)	Linear Out 2: 4,5 ÷ 0,5V (2,5V @0°)	-
	Overload Protection	24mA For 1h	PDV Rev. 3 - P. 5.6;
	Overvoltage Protection	6.5V For 1 h	PDV Rev. 3 - P. 5.7;
	Temperature Operating Voltage	5.5V @85° For 1h	PDV Rev. 3 - P. 5.8;
	Reverse Polarity Protection	-5.5V For 1h	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;
	Linearity Error	< 1%	-
	Resolution	<12 bit	-
Environmental	MTTFd	74,16 Years	ISO 13849-1:2006 (E)
	Operating Temperature (For The Electronic Components)	-40°C ÷ +85°C	IEC 60068-2-14;IEC60068-2-1; IEC 60068-2-30 ;IEC60068-2-2;
	Storage Temperature (For the Assembly)	-40°C ÷ +100°C	IEC 60068-2-14;IEC60068-2-1; IEC 60068-2-30 ;IEC60068-2-2;
	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@dis≤±15mm@5g, 1Octave/min, 20 Sweep Cycles	IEC 60068-2-6;ISO 15998;
	EMC Compatibility - BCI	BCI Class "A" - 100mA; (1÷400)MHz	ISO11452-4;
	Mech.		
	Body Material	Nylon 6.6 GF	-
	Tightening Torque	7 Nm	-