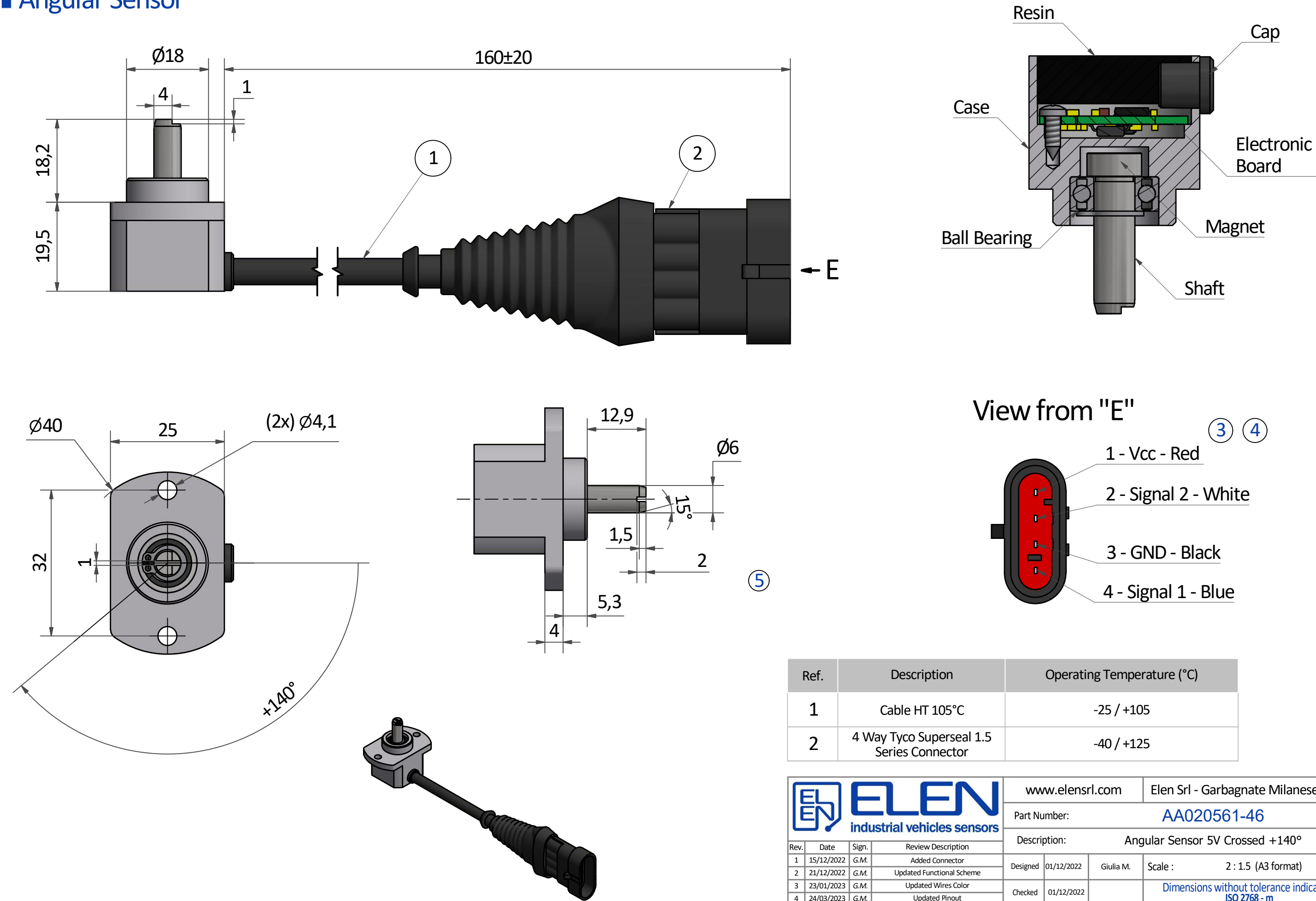


■ Angular Sensor

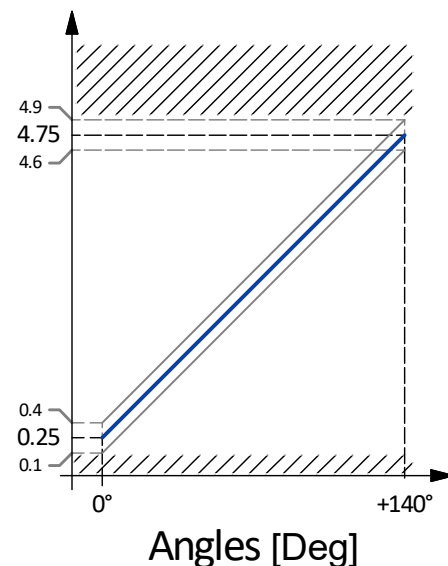


Ref.	Description	Operating Temperature (°C)
1	Cable HT 105°C	-25 / +105
2	4 Way Tyco Superseal 1.5 Series Connector	-40 / +125

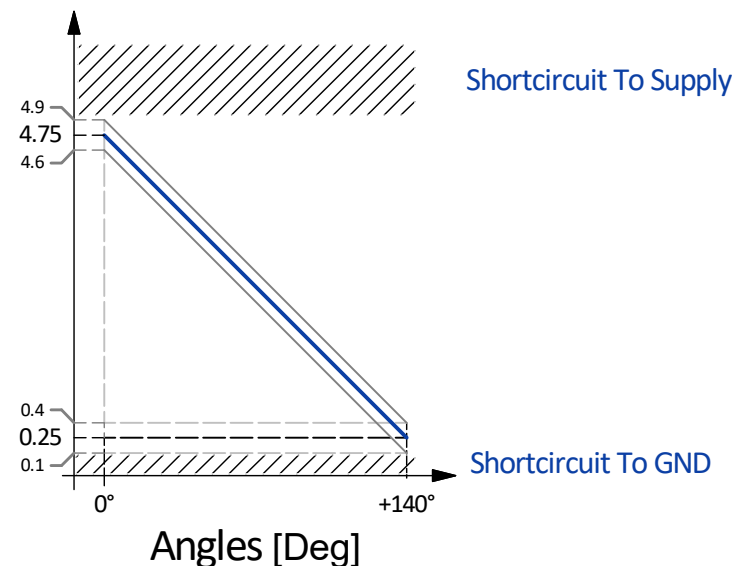
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020561-46			
				Description:		Angular Sensor 5V Crossed +140°			
Rev.	Date	Sign.	Review Description						
1	15/12/2022	G.M.	Added Connector						
2	21/12/2022	G.M.	Updated Functional Scheme						
3	23/01/2023	G.M.	Updated Wires Color						
4	24/03/2023	G.M.	Updated Pinout						
5	05/04/2024	M.M.	Aggiunto Taglio alberino						
				Designed	01/12/2022	Giulia M.	Scale : 2 : 1.5 (A3 format)		
				Checked	01/12/2022	Dimensions without tolerance indication: ISO 2768 - m			
				Approved	01/12/2022		Units mm	Page 1 /2	

■ Output Signal

Signal 1 (V) @Vin = 5V

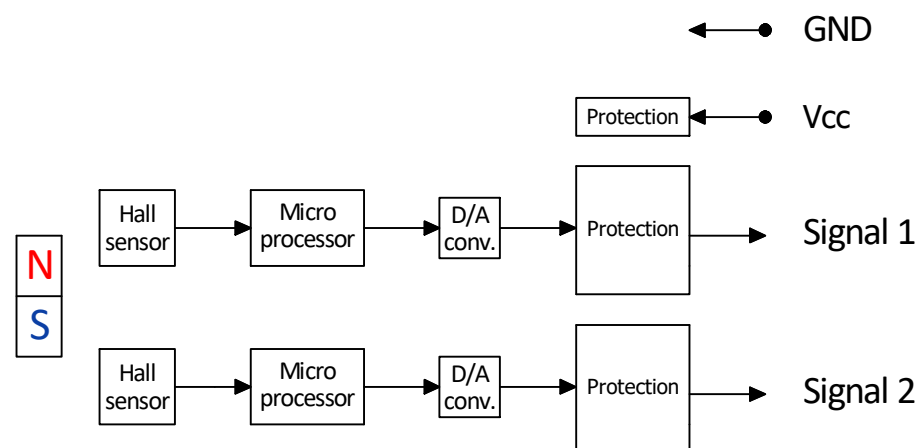


Signal 2 (V) @Vin = 5V

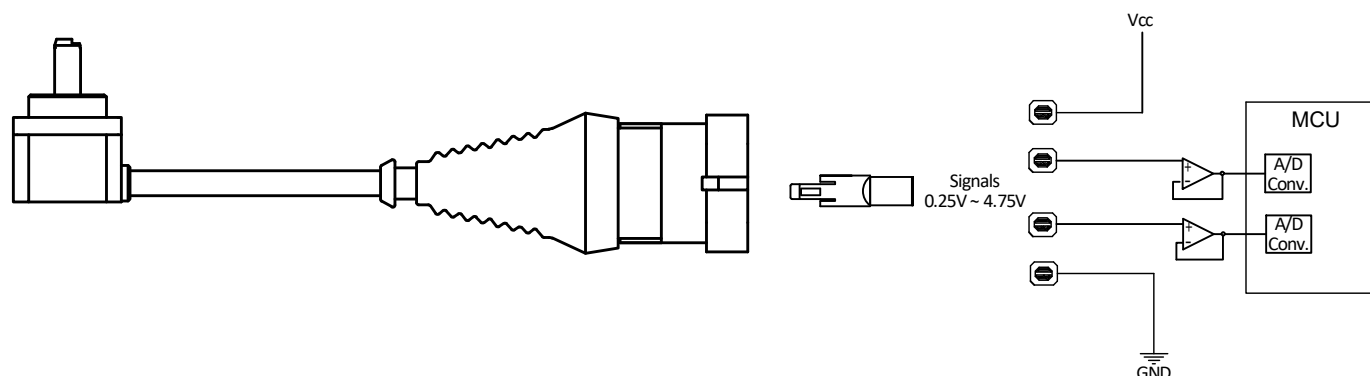


■ Functional Scheme

②



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	Min 4,9V ÷ Max 5,5V	ELEN PDV Rev. 3 - 5.1
	Supply Current (No Load)	15mA Max	ELEN PDV Rev. 3 - 5.2
	Electrostatic Discharge Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Reverse Polarity Protection	-5.5V For 1h (-12V)	ELEN PDV Rev. 3 - 5.3
	Overload Protection	1.2 mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	6.5V For 1h (20V)	ELEN PDV Rev. 3 - 5.7
	Output Current	Max 1 mA	ELEN PDV Rev. 3 - 5.5
	Maximum Load Recommended Output	>4.7 kOhm	-
	Supply Current (No Load)	15mA Max	ELEN PDV Rev. 3 - 5.2
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Signal 1 Outputs	0.25V @ 0° ÷ 4.75V @ 140° [±0.15V]	-
	Signal 2 Outputs	4.75V @ 0° ÷ 0.25V @ 140° [±0.15V]	-
	Resolution	12 bit	-
	Temperature Operating Voltage	5.5V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Dielectric Rigidity	750V @ 50Hz For 60s	ELEN PDV Rev. 3 - 5.11
Environmental	Insulation Resistance	1000 MΩ @ 500V	ELEN PDV Rev. 3 - 5.10
	Shortcircuit Protection	To GND For 5' ; To Supply For 5'	ELEN PDV Rev. 3 - 5.4
	Operating Temperature (for Electronic Components)	-40°C ÷ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Storage Temperature (for the Assembly)	-25° ÷ +105°C	EN 60068-2-1;EN 60068-2-2; EN 60068-2-30;EN 60068-2-14
	Degree of Protection	IP 67	IEC 60529
Mech.	Vibrations Resistance - Sine	(5÷12.87)Hz@dis±15mm, (12.87÷200)Hz@dis±15mm@5g, 10octave/min, 20 Sweep Cycles	EN 60068-2-6 ISO 15998
	Vibrations Resistance - Random	f=10Hz@PSD=1.44 g2/Hz ; f=100Hz@PSD=3.85 g2/Hz ; f=1000Hz@PSD=3.85 g2/Hz ; f=2000Hz@PSD=0.96 g2/Hz ; 3 Axis - 24h For Axis	EN 60068-2-64; ENS 0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-