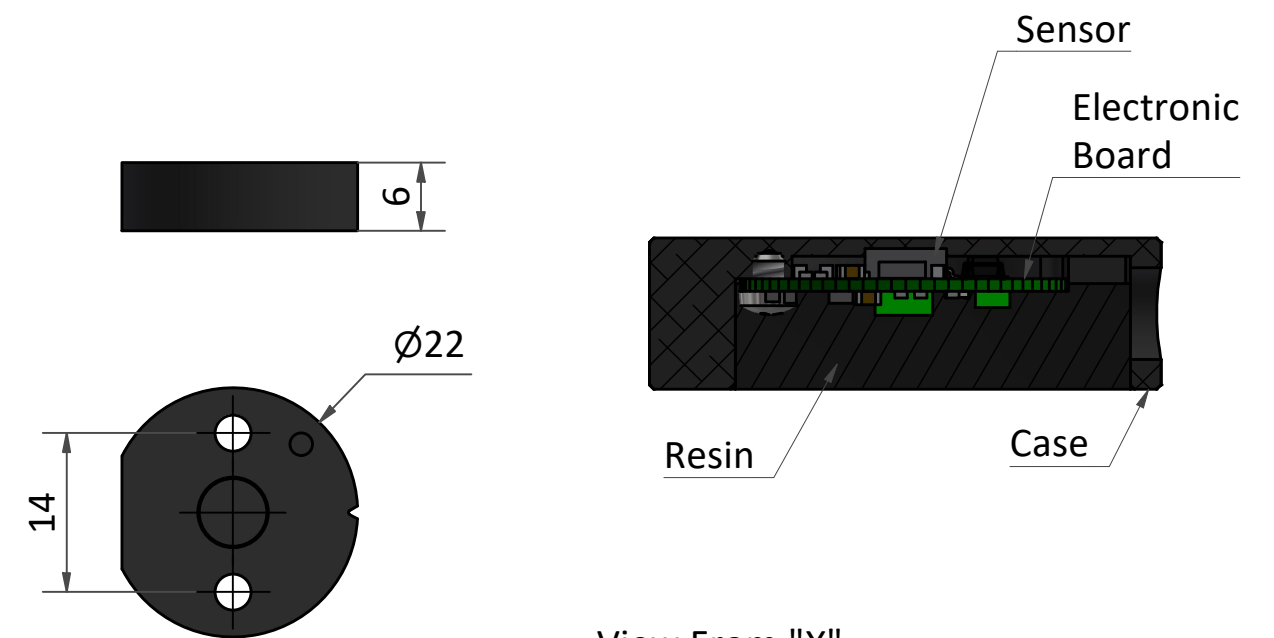
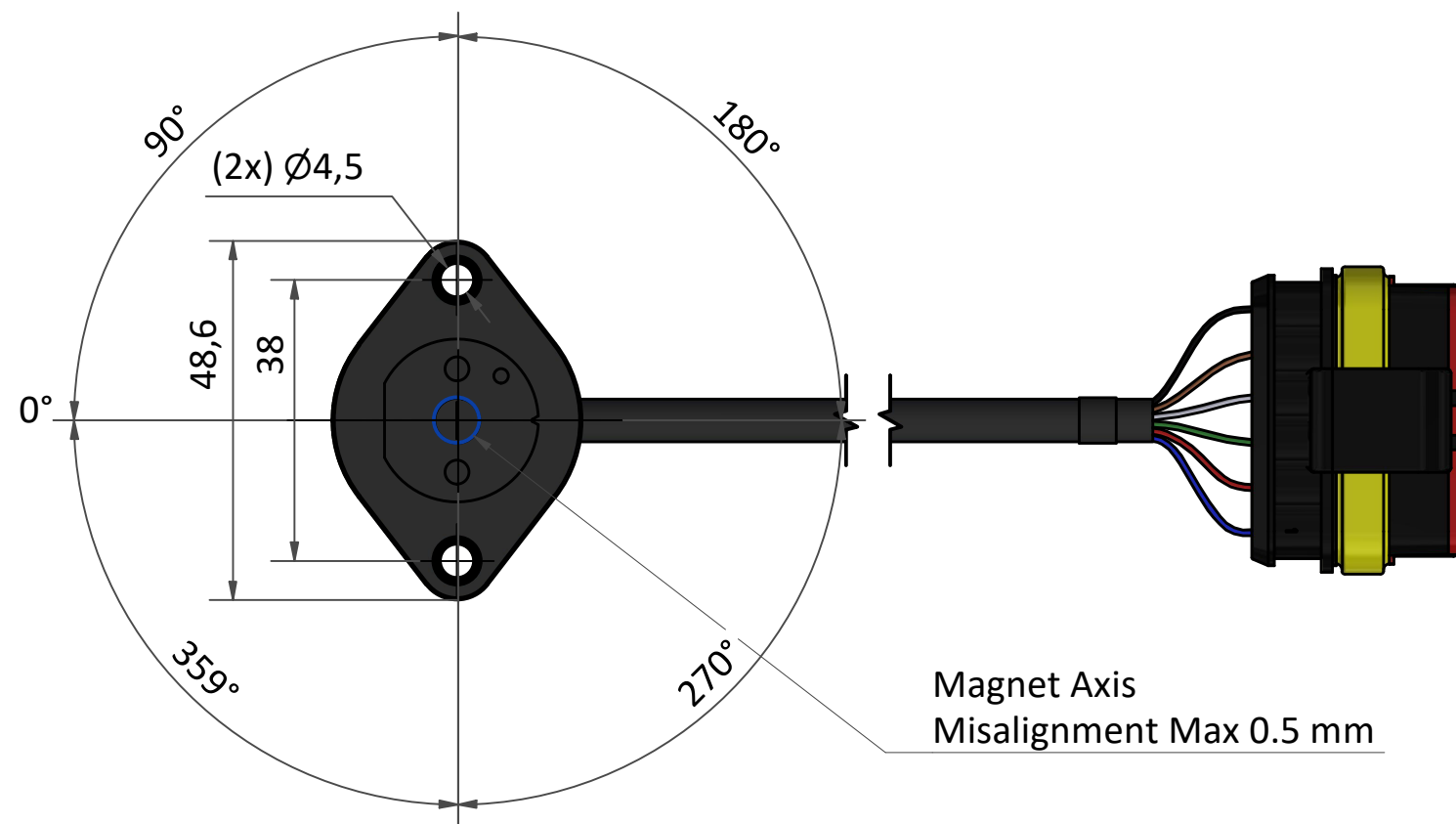
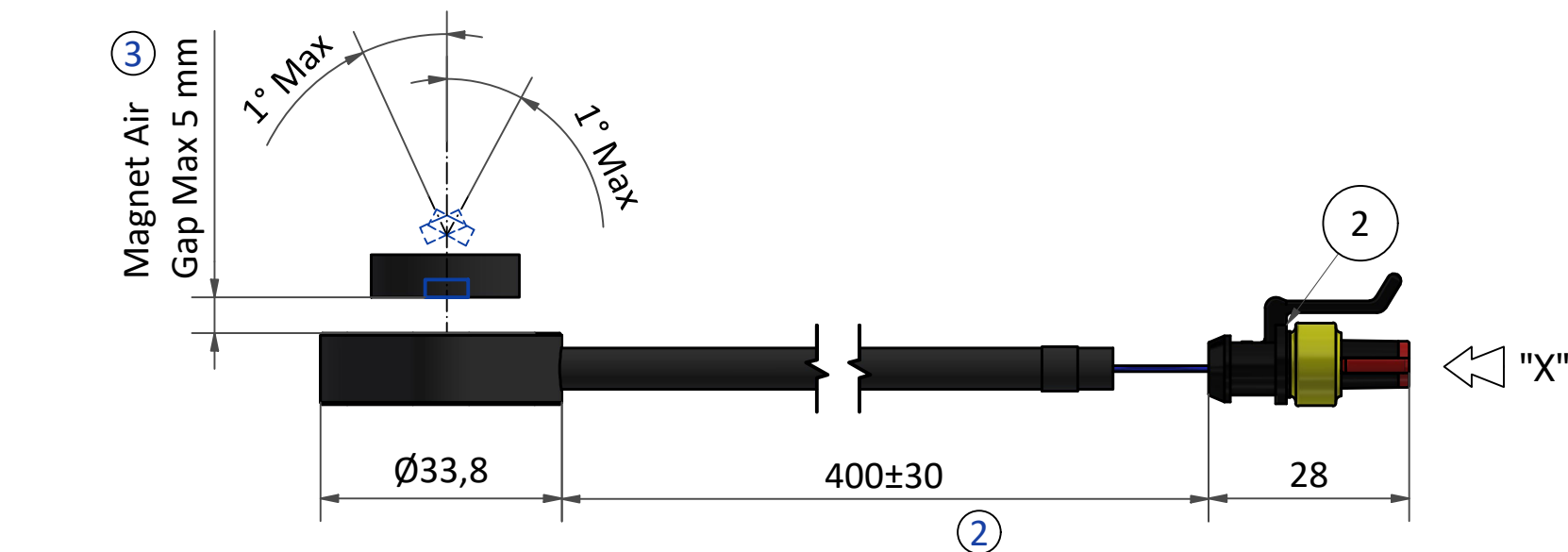
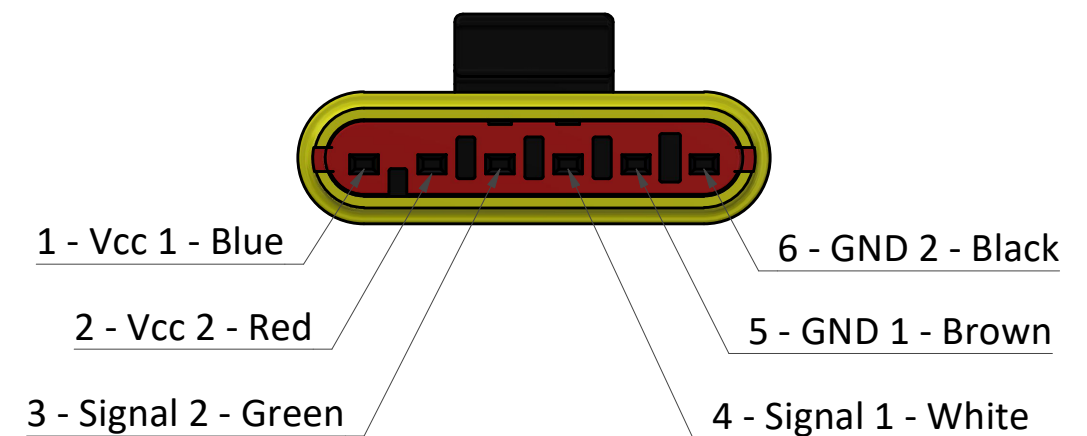


■ Contactless Angular Sensor



View From "X"
Scale 1.5 : 1



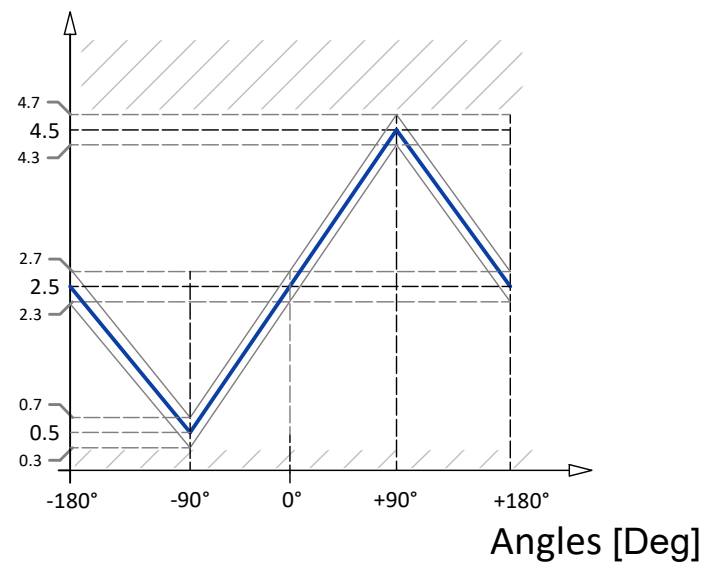
Ref.	Description	Operating Temperature (°C)
1	Cable HT 105°C	-25 / +105
2	6 Pin Tyco SuperSeal 1.5 Series Connector	-40 / +125



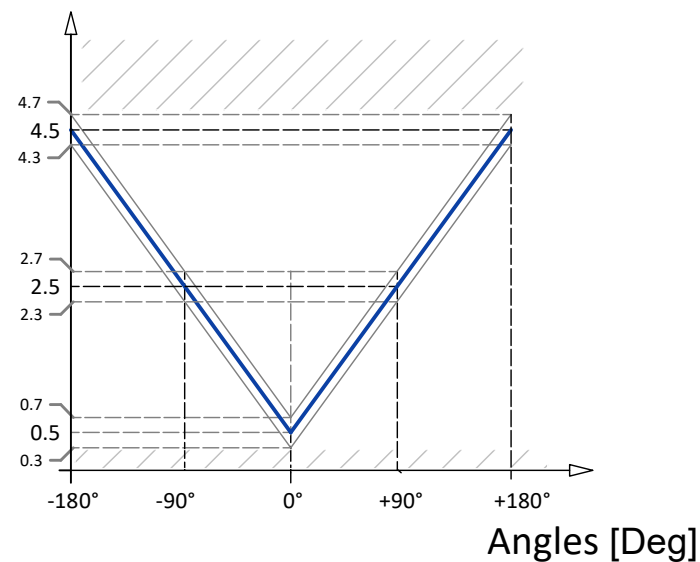
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)	
				Part Number:		AA020510-20	
				Description:		Contactless Angular Sens. 360° 5V Double Sig.	
Rev.	Date	Sign.	Review Description	Designed	25/05/2022	Matteo M.	Scale : 1 : 1 (A3 format)
1	07/06/2022	M.M.	Modified Pinout and Cable Lenght				
2	03/04/2025	pb	Cable lenght reference				
3	02/02/2026	G.M.	Modified Air Gap (was 1mm)	Checked	25/05/2022		Dimensions without tolerance indication: ISO 2768 - m
				Approved	25/05/2022		Units mm
				Page 1 / 2			

■ Output Signals

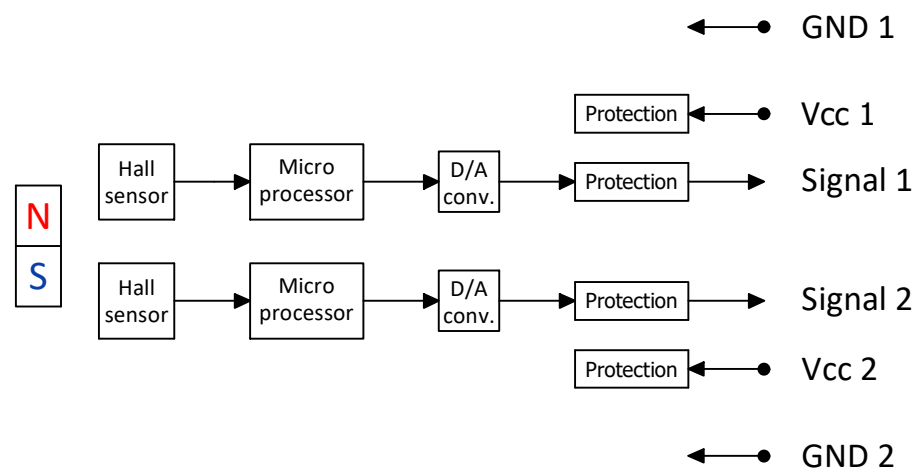
Signal 1 (V) @Vin = 5V



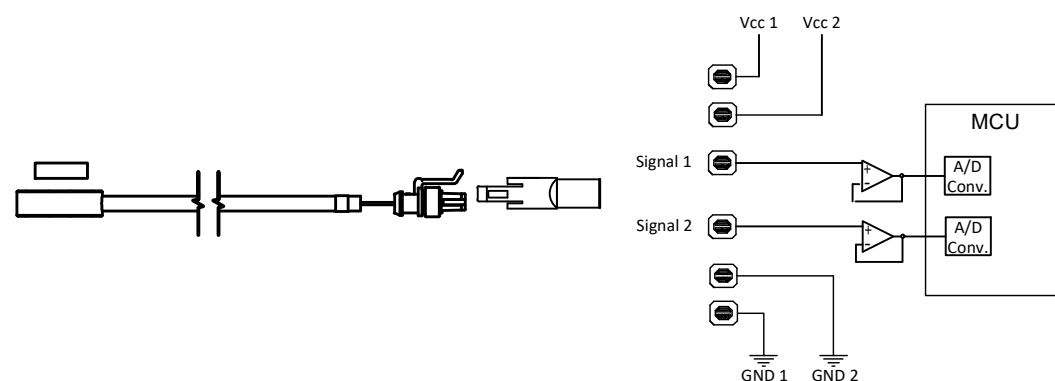
Signal 2 (V) @Vin = 5V



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	Min 4,5V - Max 5,5V	ELEN PDV Rev. 3 - 5.1
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Electrostatic Discharge Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Reverse Polarity Protection	-5.5V For 1h (-12V For Channel)	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 For Channel)	ELEN PDV Rev. 3 - 5.7
	Output Current	Max 1 mA (For Channel)	ELEN PDV Rev. 3 - 5.5
	Maximum Load Recommended Output	>4.7 kOhm (For Channel)	-
	Supply Current (No Load)	15mA Max (For Channel)	ELEN PDV Rev. 3 - 5.2
	Linear Output 1	See Picture Beside	-
	Linear Output 2	See Picture Beside	-
	Resolution	12 bit	-
	Temperature Operating Voltage	5.5V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Linearity	< ±1%	-
	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, 1 Octave/min, 20 Sweep Cycles	EN 60068-2-64; 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	Plastic	-
	Shaft Material	Plastic	-