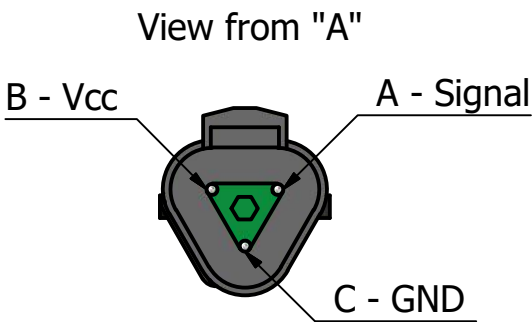
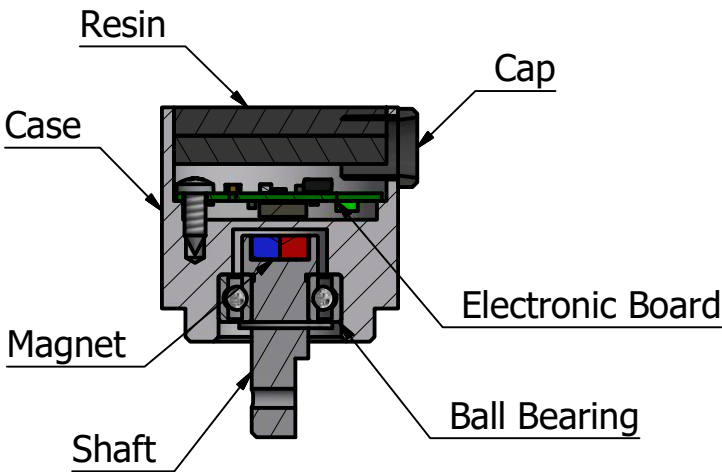
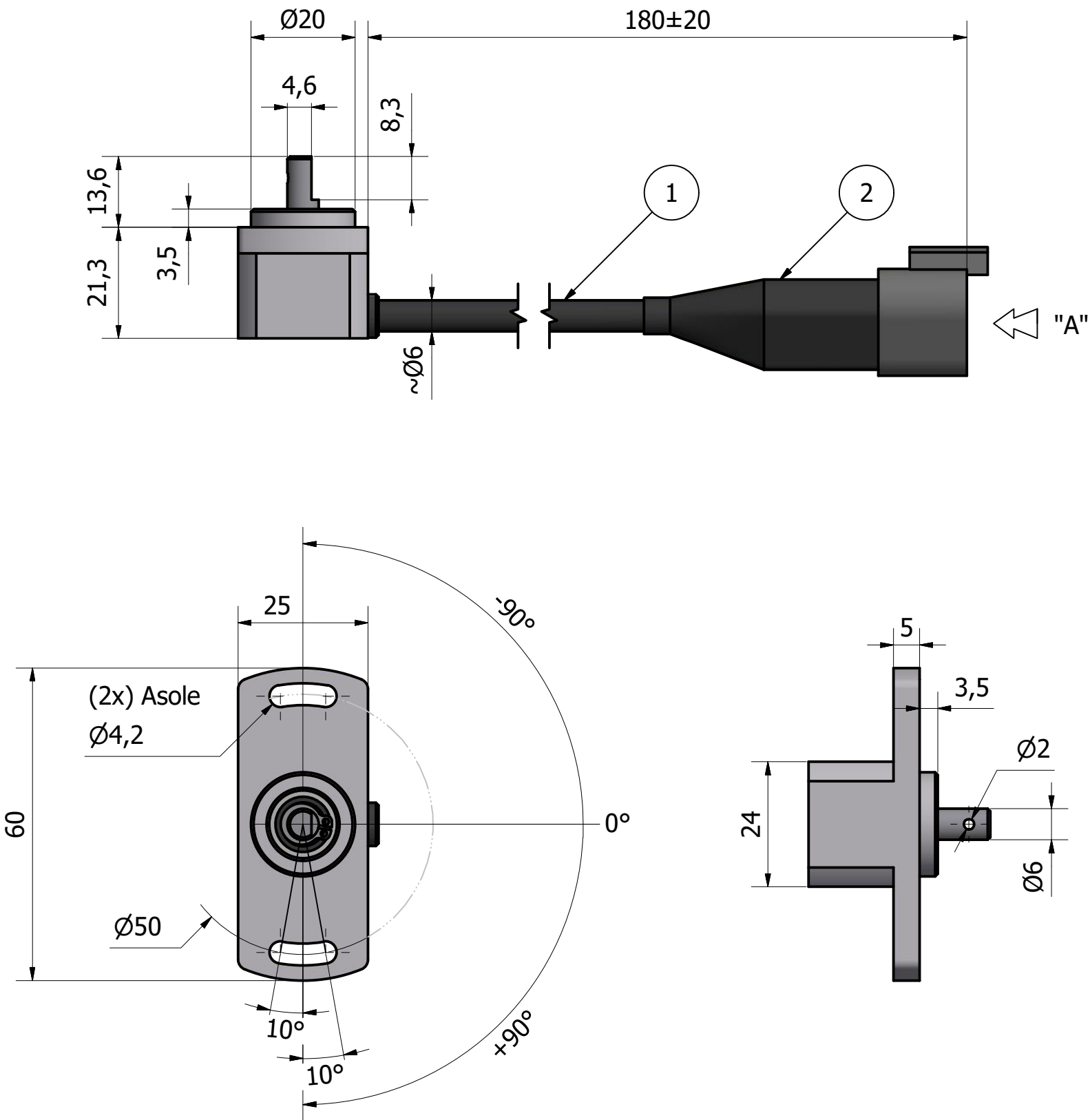


■ Angular Sensor

1

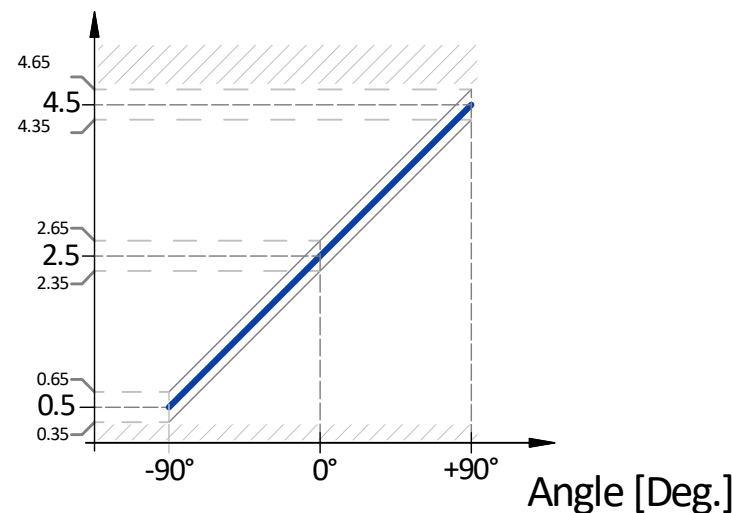


Ref.	Description	Operating Temperature
1	HT 105 Cable	-25 / +105
2	3 Way Deutsch DT04-3P or compatible	-55 / +125

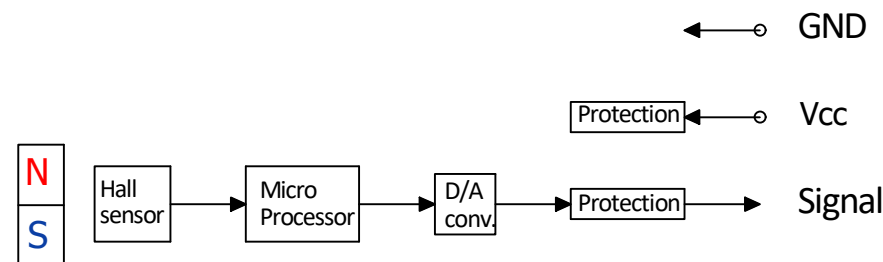
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020570-25			
				Description:		Angular Sensor ±90°			
Rev.	Date	Sign.	Review Description	Designed	28/02/2024	Giulia M.	Scale : 1 : 1 (A3 format)		
1	04/03/2024	G.M.	Updated Sensor Mech.	Checked	28/02/2024		Dimensions without tolerance indication: ISO 2768 - m		
				Approved	28/02/2024			Units mm	Page 1 / 2

■ Output Signal

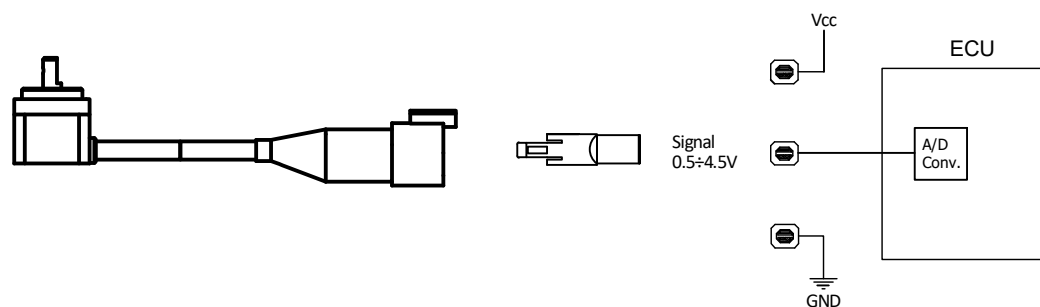
Signal [V] @ $V_{in} = 8 \div 30V$



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	8V 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;
	Linear Output	0,5V ÷ 4,5V [± 0.15 V] (2.5V @ 0°)	-
	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 @ 105° 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	1000M Ω @500V	PDV Rev. 3 - P. 5.10;
	Dielectric Rigidity	750V@50Hz For 60s	PDV Rev. 3 - P. 5.11;
	ESD Protection	± 8 kV Contact; ± 15 kV 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)
Environmental	Linearity	$< \pm 1\%$	-
	Resolution	12 bit	-
	Operating Temperature (for Electronic Components)	-25°C ÷ +115°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Storage Temperature (for the Assembly)	-25°C ÷ +105°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Degree Of Protection	IP 67	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 60068-2-64; ENS 0310 Rev.J
	Vibrations Resistance - Sine	(5÷12.87)Hz@dis ± 15 mm, (12.87÷200)Hz@dis $< \pm 15$ mm@5g, 1 Octave/min, 20 Sweep Cycles	EN 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	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-