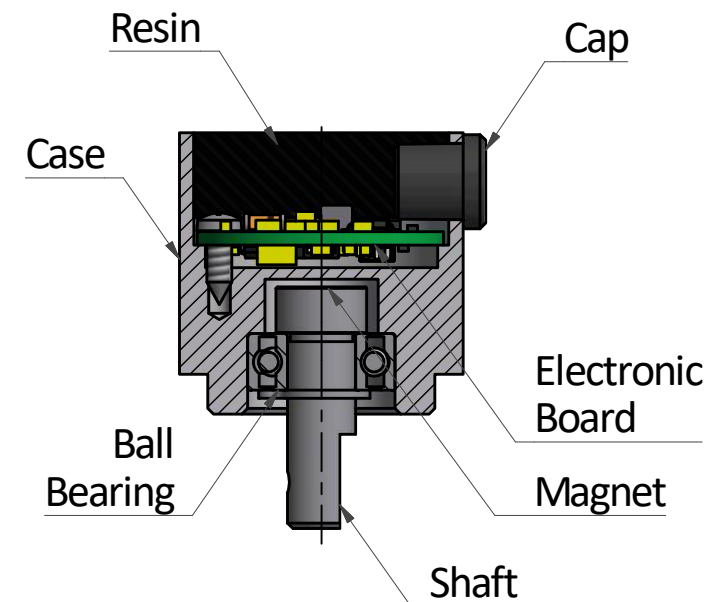
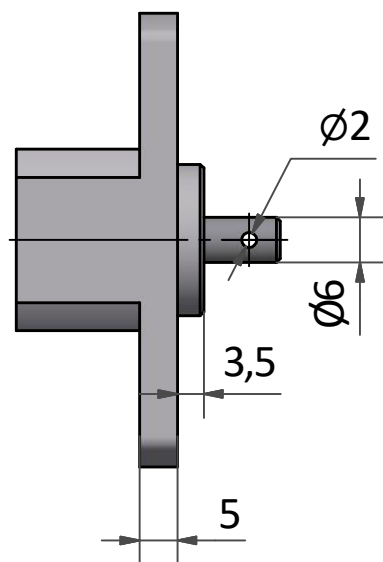
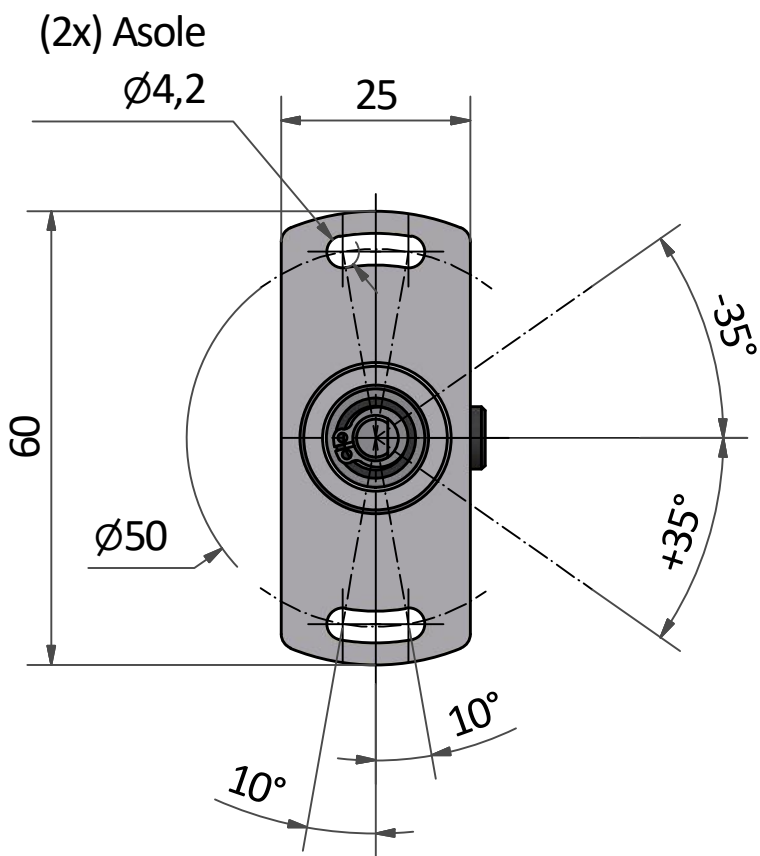
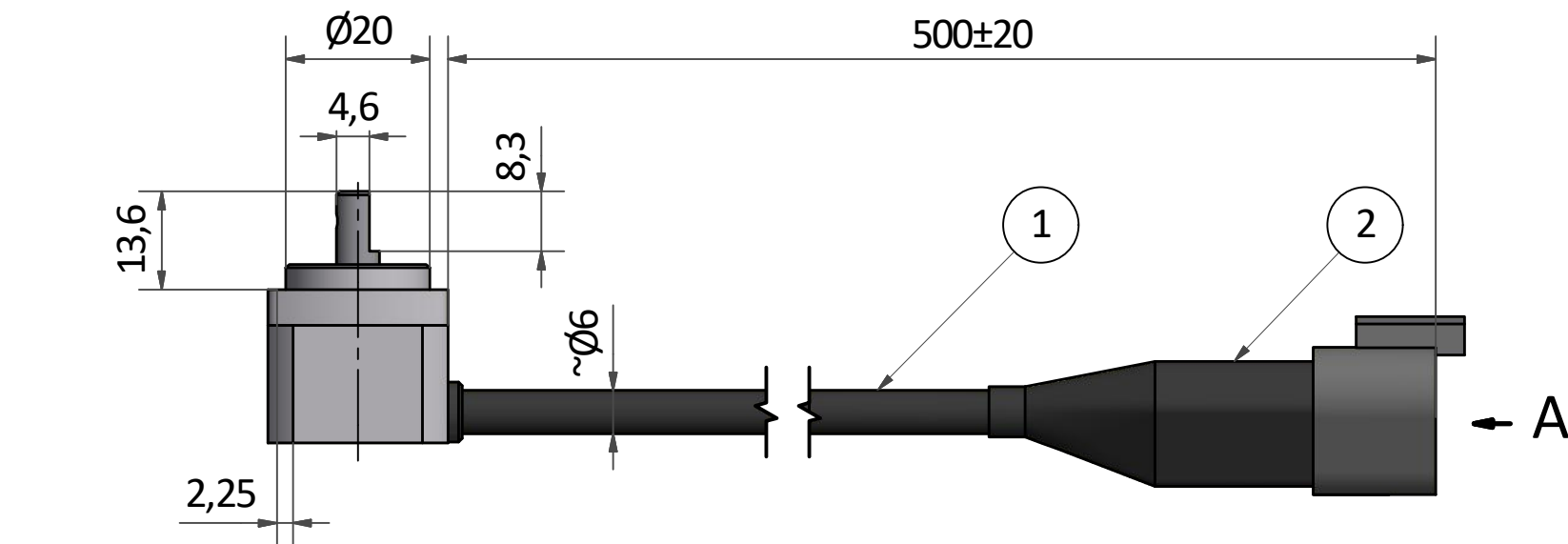
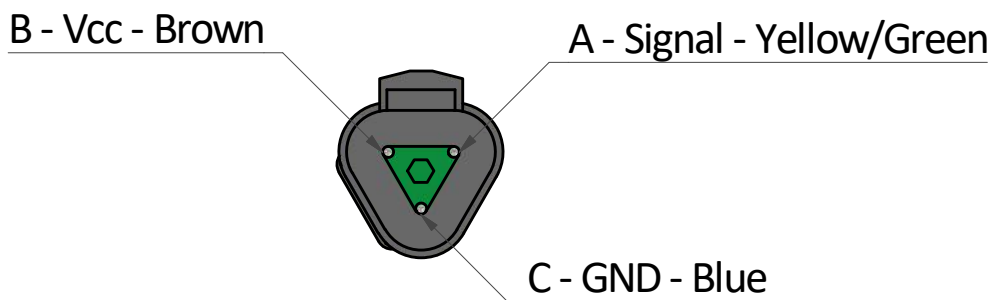


■ Angular Sensor



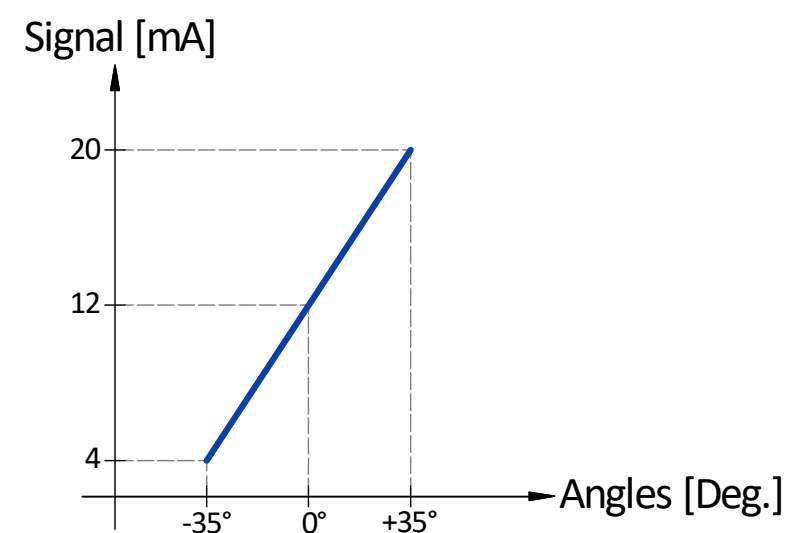
View from "A"



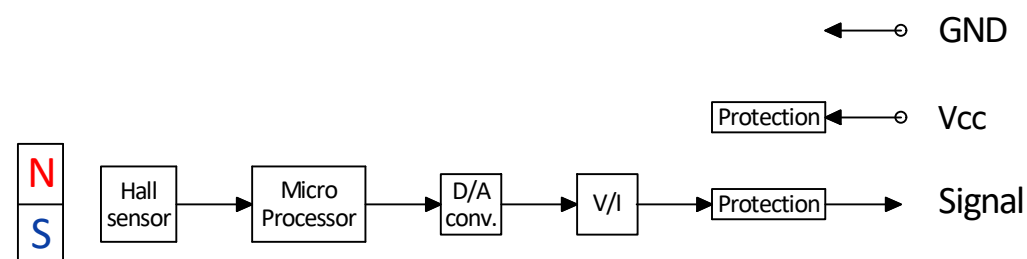
Ref.	Description	Operating temperature
1	Cable HT 105°C	-40 / +105
2	3 Way Deutsch DT04-3P or compatible	-55 / +125

 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020502-45			
				Description:		Angular Sensor ±35° 4-20mA			
Rev.	Date	Sign.	Review Description	Designed	03/06/2024	Giulia M.	Scale : 1 : 1 (A3 format)		
				Checked	03/06/2024		Dimensions without tolerance indication: ISO 2768 - m		
				Approved	03/06/2024			Units mm	Page 1 / 2

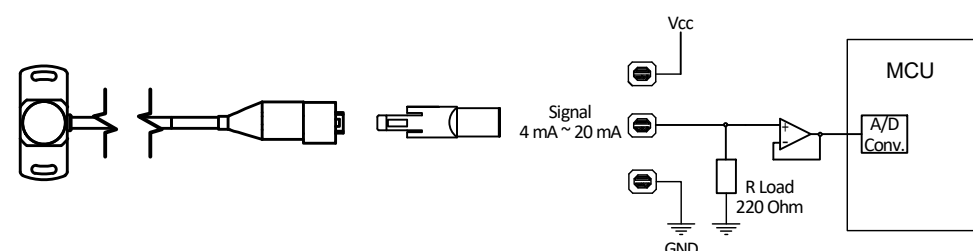
■ Output Signal



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	Min 10V - Max 30V	ELEN PDV Rev. 3 - 5.1
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Resolution	12 bit	-
	Reverse Polarity Protection	-30V For 1h	ELEN PDV Rev. 3 - 5.3
	Overvoltage Protection	36V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Short Circuit Protection	To Ground For 5' To VDC For 5'	ELEN PDV Rev. 3 - 5.4
	Max Load Recommended Output	< 250 Ohm@ Vin=10V ; <820 Ohm@ Vin=24V ; <1250 Ohm@ Vin=30V	-
	Supply Current (No Load)	30 mA Max	-
	Signal Output	Linear 4 ÷ 20 mA	-
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	ESD Protection	±8kV 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)
	Insulation Resitance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Temperature Operating Voltage	30V@105°C For 1h	ELEN PDV Rev. 3 - 5.8
Environmental	Linearity	< ±1 %	-
	Operating Temperature (for Electronic Components)	-40°C ÷ +115°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ;IEC60068-2-14
	Storage Temperature (for the Assembly)	-40°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 - Sine	(5÷12.87) Hz@dis ±15mm ,(12,87÷200) Hz@dis ≤±15mm@5g, 1 Octave/min , 20 Sweep Cycles	EN 60068-2-6
Mech.	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	-