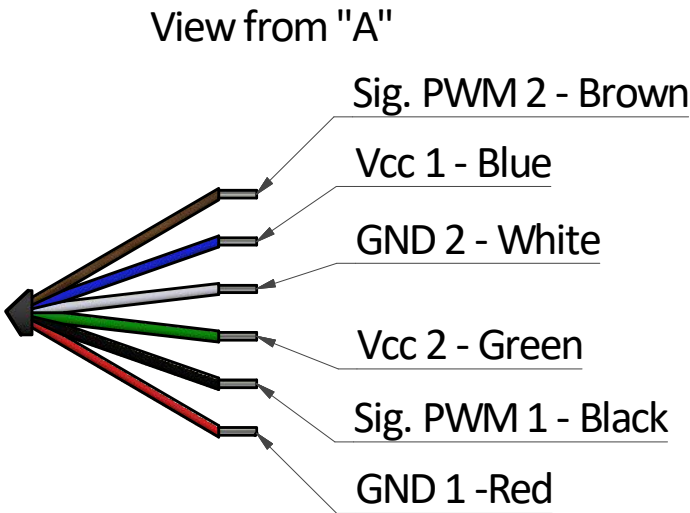
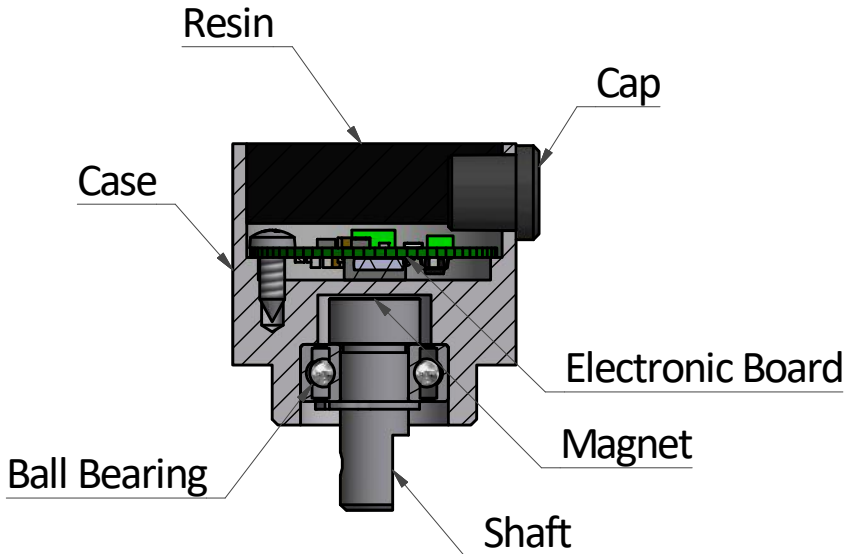
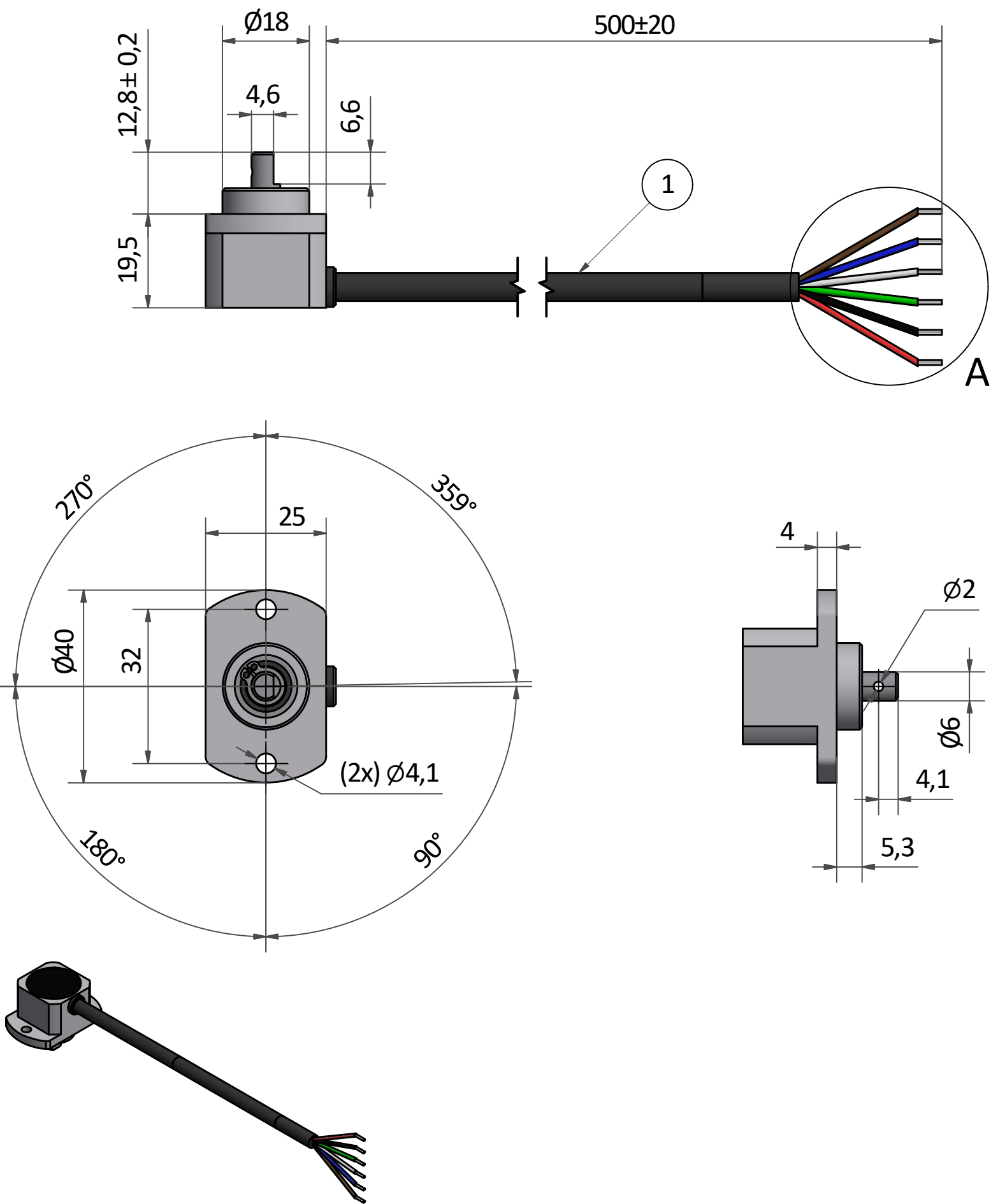


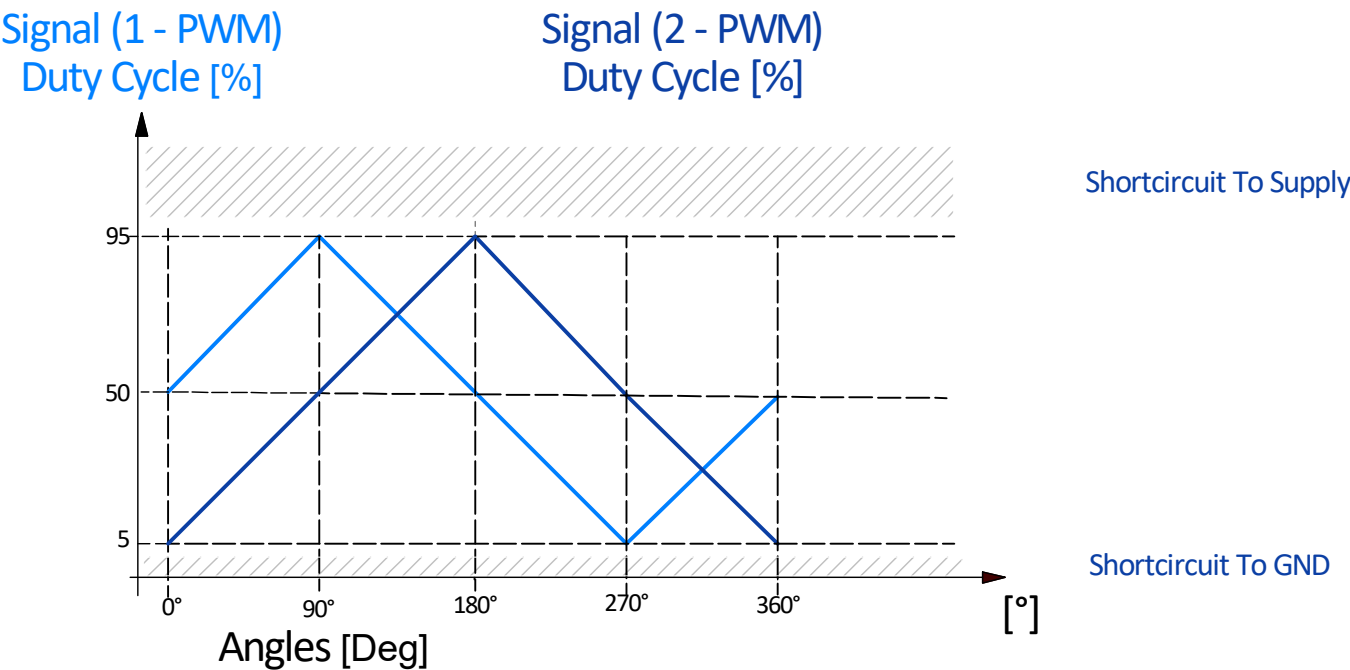
■ Angular Sensor



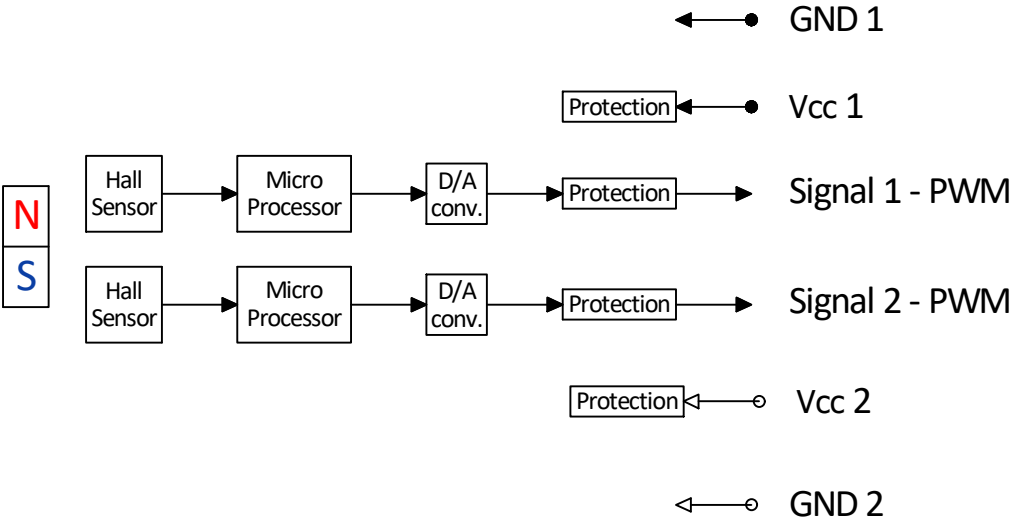
Ref.	Description	Operating Temperature
1	Cable HT 105°C	-25 / +105

 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)			
				Part Number:		AA020561-49			
				Description:		Angular Sensor 359° 5V Double Sig. PWM			
Rev.	Date	Sign.	Review Description	Designed	05/09/2023	Giulia M.	Scale : 1 : 1 (A3 format)		
				Checked	05/09/2023		Dimensions without tolerance indication: ISO 2768 - m		
				Approved	05/09/2023			Units mm	Page 1 / 2

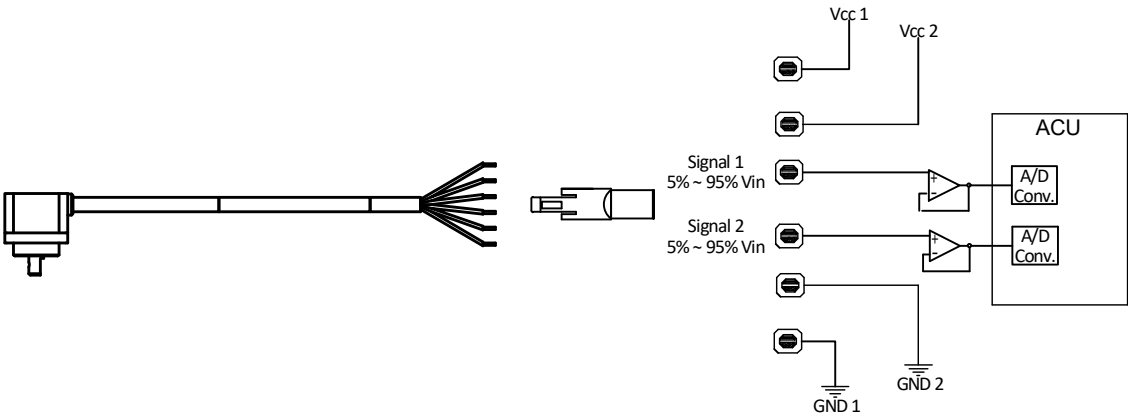
■ Output Signal



■ 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
	Overload Protection	1.2 mA For 1h	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	+6.5 V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Current	1 mA Max	ELEN PDV Rev. 3 - 5.5
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Insulation Resitance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Current Sink (No Load)	<= 20mA (For Channel)	ELEN PDV Rev. 3 - 5.2
	Output 1 (With 5V Power Supply) - PWM Channel	Duty Cylce = 5 ÷ 95 [%] ±1[%] See Picture	-
	Output 2 (With 5V Power Supply) - PWM Channel	Duty Cylce = 5 ÷ 95 [%] ±1[%] See Picture	-
	Temperature Operating Voltage	5.5V@105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Resolution	12 bit	-
	Linear Error	< ±1%	-
	Shortcircuit Protection	To Ground For 5' ; To Vcc For 5'	ELEN PDV Rev. 3 - 5.4
Environmental	PWM Signal Frequency	200Hz±40Hz	-
	Operating Temperature (for Electronic Components)	-40°C ÷ +105°C	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30; IEC 60068-2-14
	Storage Temperature (for the Assembly)	-25° ÷ +105°C	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-30; IEC 60068-2-14
	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 ISO 15998
Mech.	Vibrations Resistance - Random	f=10Hz@PSD=1.44g2/Hz; f=100Hz@PSD=3.85 g2/Hz, f=1000Hz@PSD=3.85g2/Hz, f=2000Hz@PSD=0.96g2/Hz; 3 Axes - 24h for Axis	IEC 60068-2-64; ENS 0310 Rev.J
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-