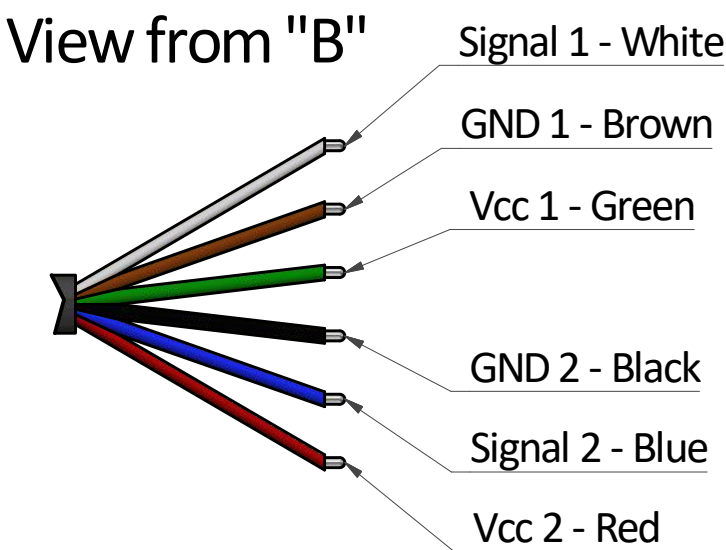
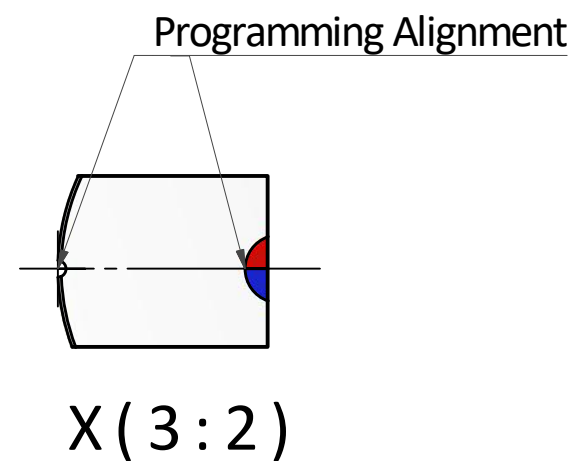
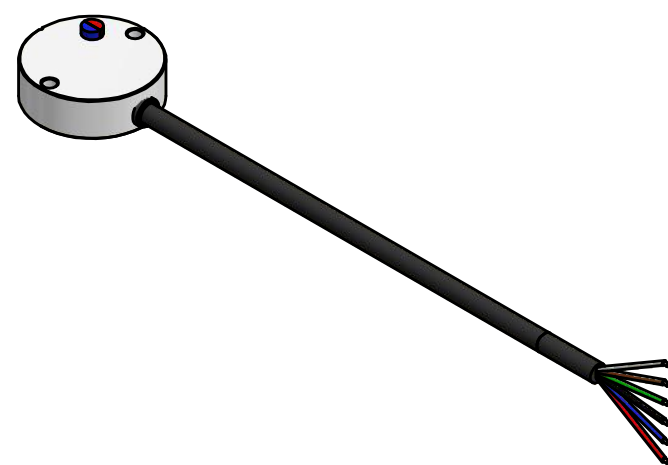
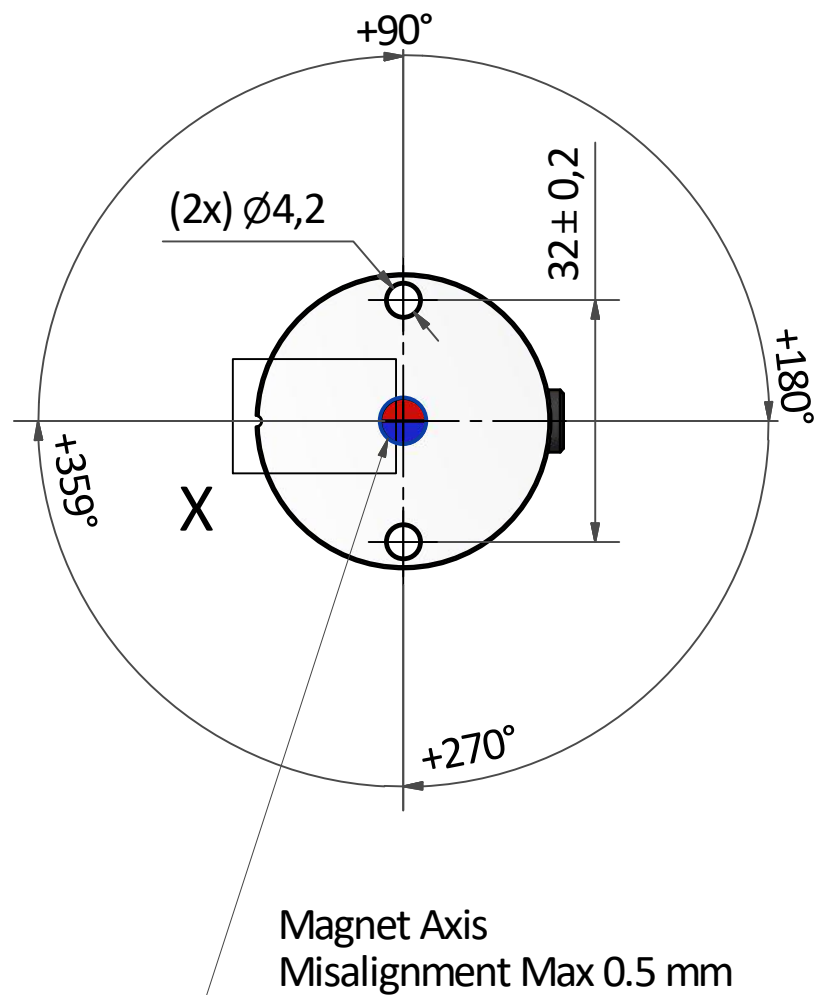
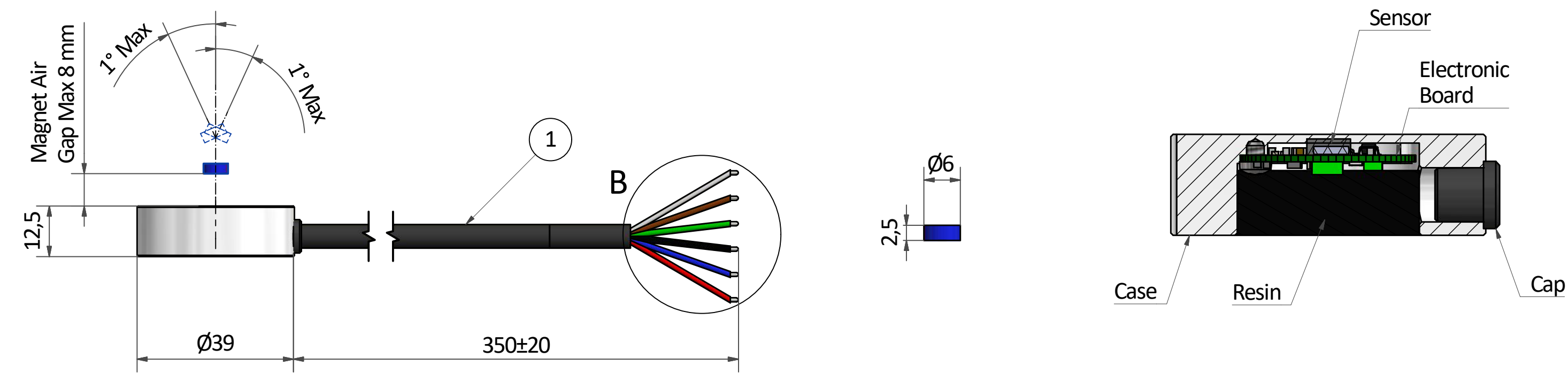


■ Contactless Angular Sensor

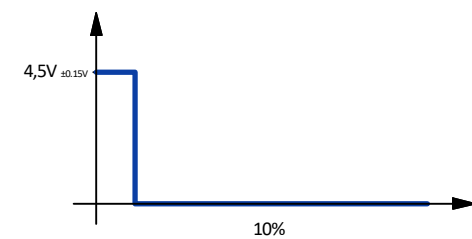
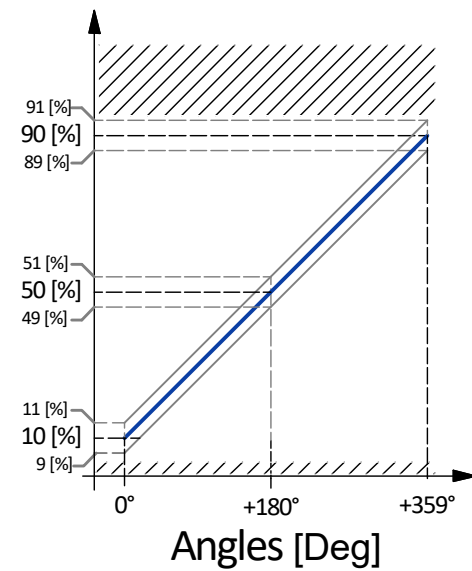


Ref.	Description	Operating Temperature °C
1	Cable HT 105°C	-40 / +105

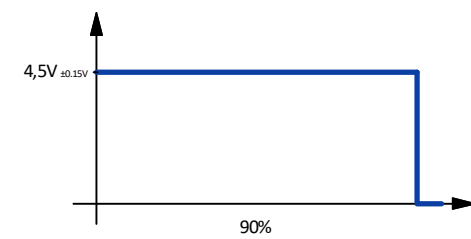
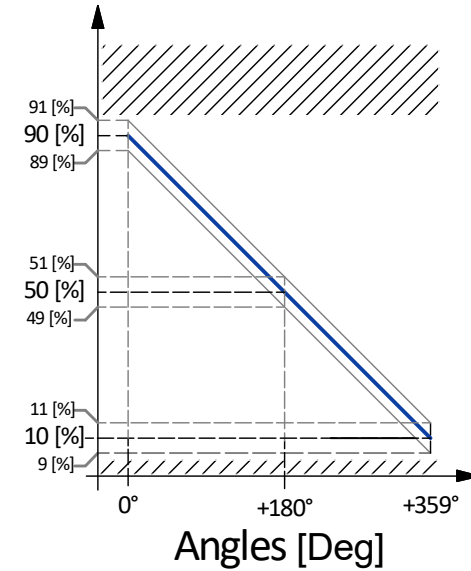
 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)				
				Part Number:		AA020515-41				
				Description:		Contactless Angular Sensor 10÷30V PWM				
Rev.	Date	Sign.	Review Description	Designed	12/10/2023	Giulia M.	Scale :		1 : 1 (A3 format)	
				Checked	-	-	Dimensions without tolerance indication: ISO 2768 - m			
				Approved	-	-		Units mm	Page 1 / 2	

■ Output Signal

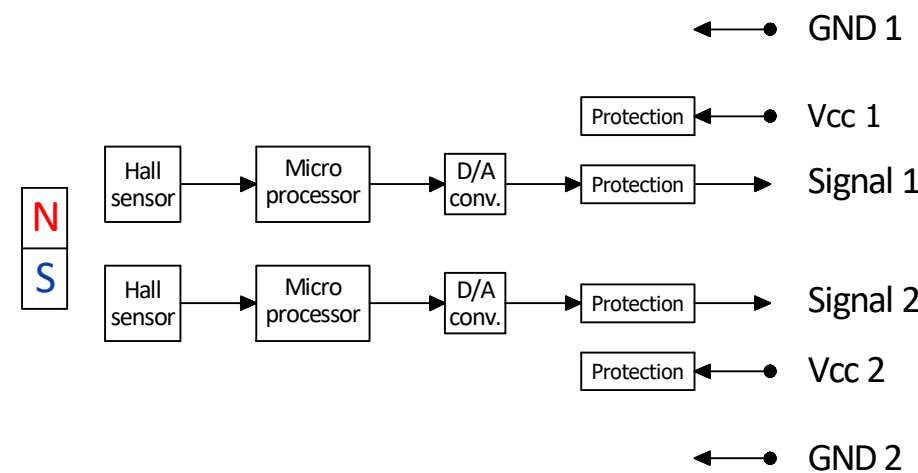
Signal 1 (PWM) Duty Cycle [%]



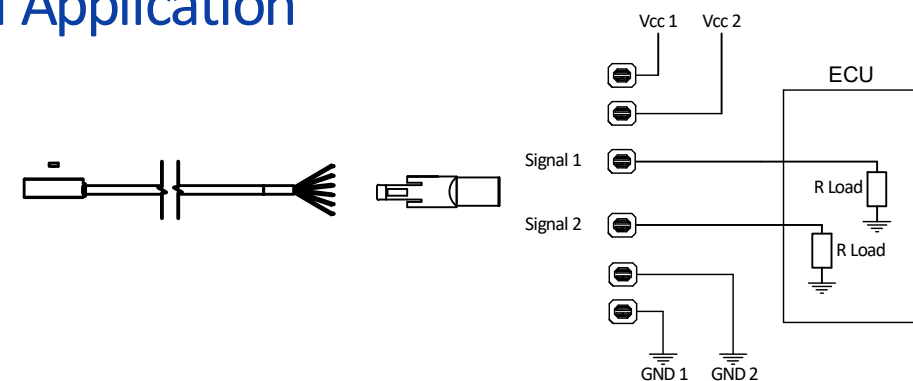
Signal 2 (PWM) Duty Cycle [%]



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Supply Voltage (Vcc)	Min 10V - Max 30V	ELEN PDV Rev. 3 - 5.1
	Supply Current (No Load)	15mA Max (For Channel)	ELEN PDV Rev. 3 - 5.2
	Push-Pull PWM Output 1	Duty Cycle = [10÷90]%	-
	Push-Pull PWM Output 2	Duty Cycle = [90÷10]%	-
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	PWM Signal frequency	500Hz [±40Hz]	
	Electrostatic Discharge Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Reverse Polarity Protection	-30V For 1h (-36V)	ELEN PDV Rev. 3 - 5.3
	Overload Protection	24 mA For 1h (50mA)	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	36V For 1h	ELEN PDV Rev. 3 - 5.7
	Resolution	<0,1°	-
	Temperature Operating Voltage	30V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	Linearity Error	±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)	-40° ÷ +115°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 60068-2-6; 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	-