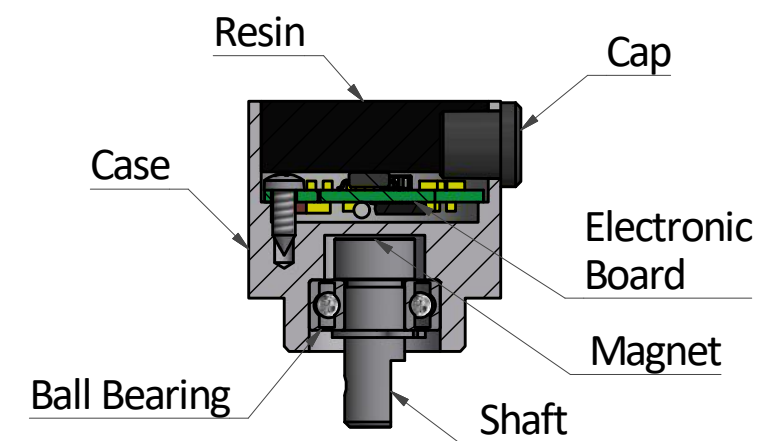
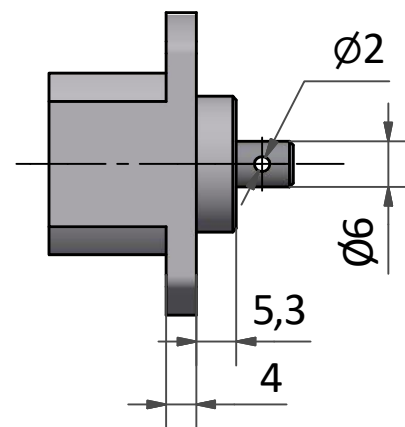
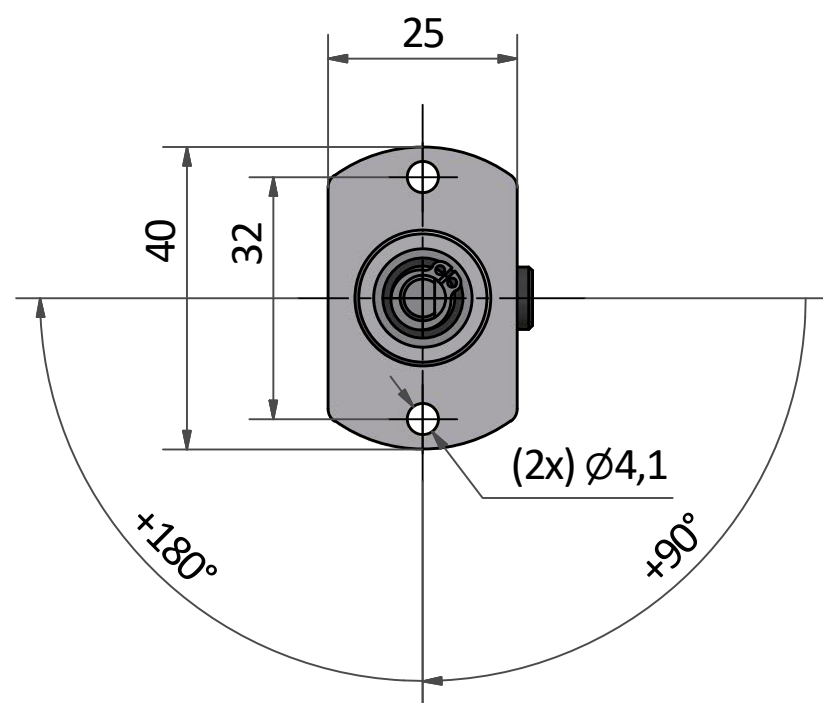
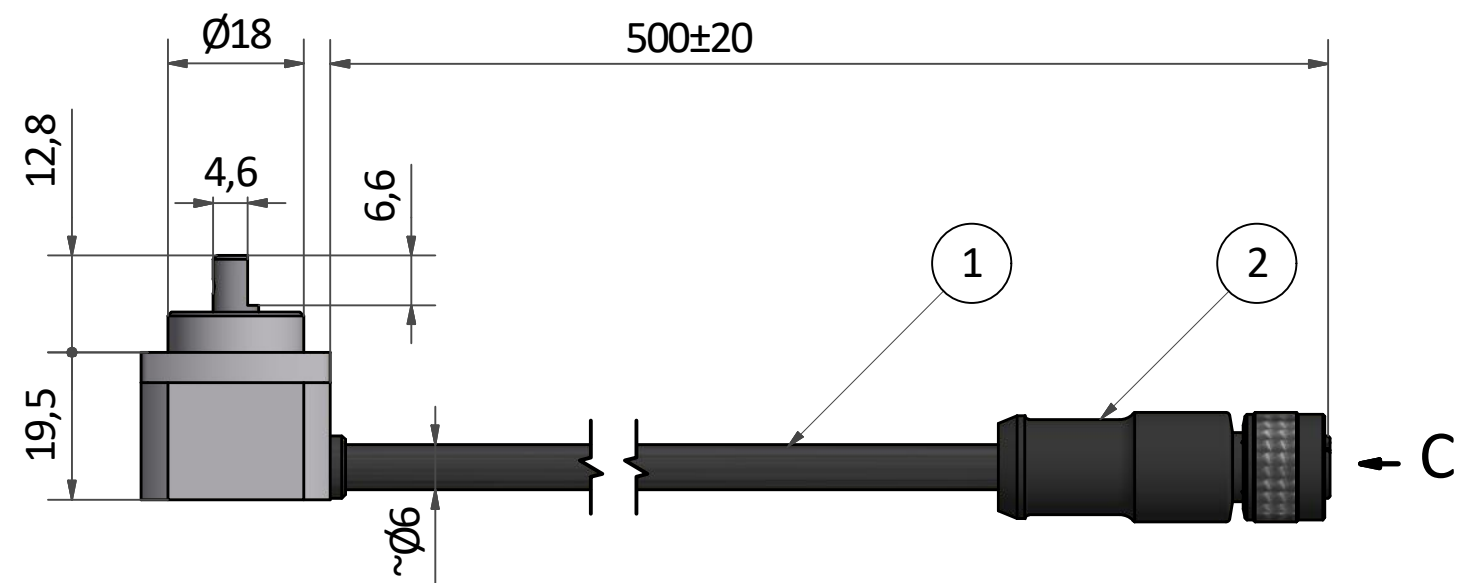
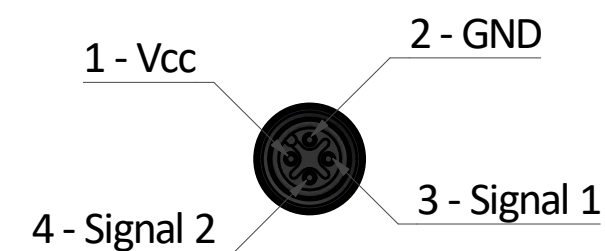


■ Angular Sensor



View from "C"



Ref.	Description	Operating Temperature (°C)
1	Cable HT 105°C	-40 / +105
2	4 Way M12 Female Connector	-25° / +80°



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Part Number: AA020560-23

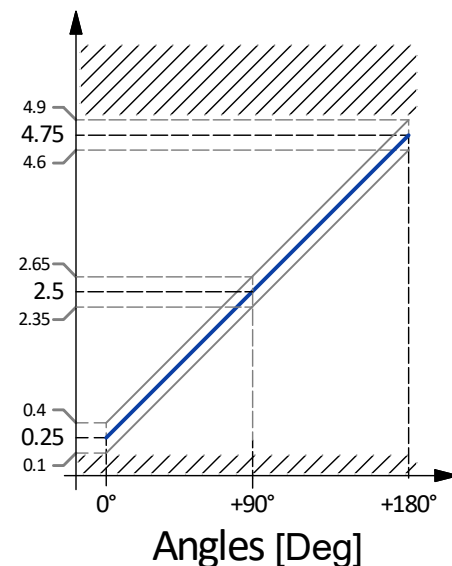
Description: Angular Sensor 5V Crossed Sign. +180°

Rev.	Date	Sign.	Review Description

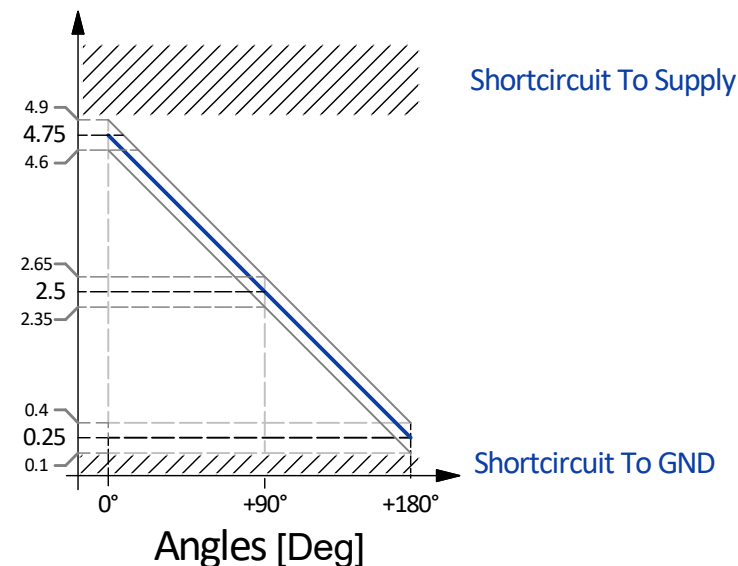
Designed	21/07/2023	Giulia M.	Scale :	1 : 1 (A3 format)
Checked	21/07/2023		Dimensions without tolerance indication: ISO 2768 - m	
Approved	21/07/2023		Units mm	Page 1 / 2

■ Output Signal

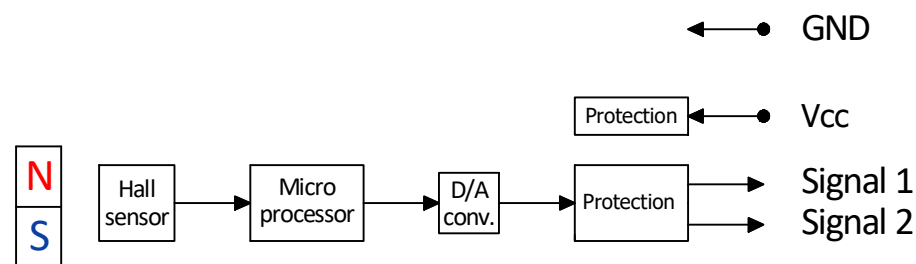
Signal 1 (V) @Vin = 5V



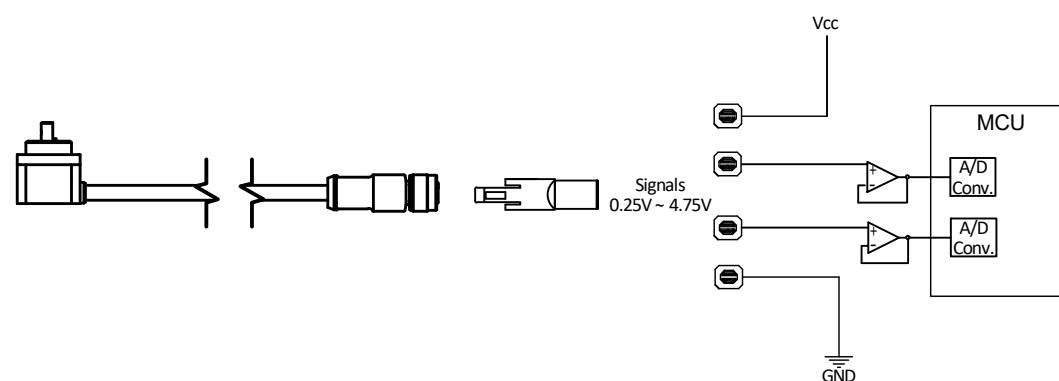
Signal 2 (V) @Vin = 5V



■ 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
	Supply Current (No Load)	15mA Max (For Channel)	ELEN PDV Rev. 3 - 5.2
	Electrostatic Discharge Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Reverse Polarity Protection	-5.5V For 1h (-12V)	ELEN PDV Rev. 3 - 5.3
	Overload Protection	Max 20 mA	ELEN PDV Rev. 3 - 5.6
	Overvoltage Protection	6.5V For 1h (20V)	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
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Signal Outputs	Signal 1: 0.25V÷4.75V [±0.15] Signal 2: 4.75V÷0.25V [±0.15]	-
	Resolution	12 bit	-
	Temperature Operating Voltage	5.5V @ 105°C For 1h	ELEN PDV Rev. 3 - 5.8
	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° ÷ +80°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, 1Octave/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	-
	Shaft Material	Stainless Steel	-