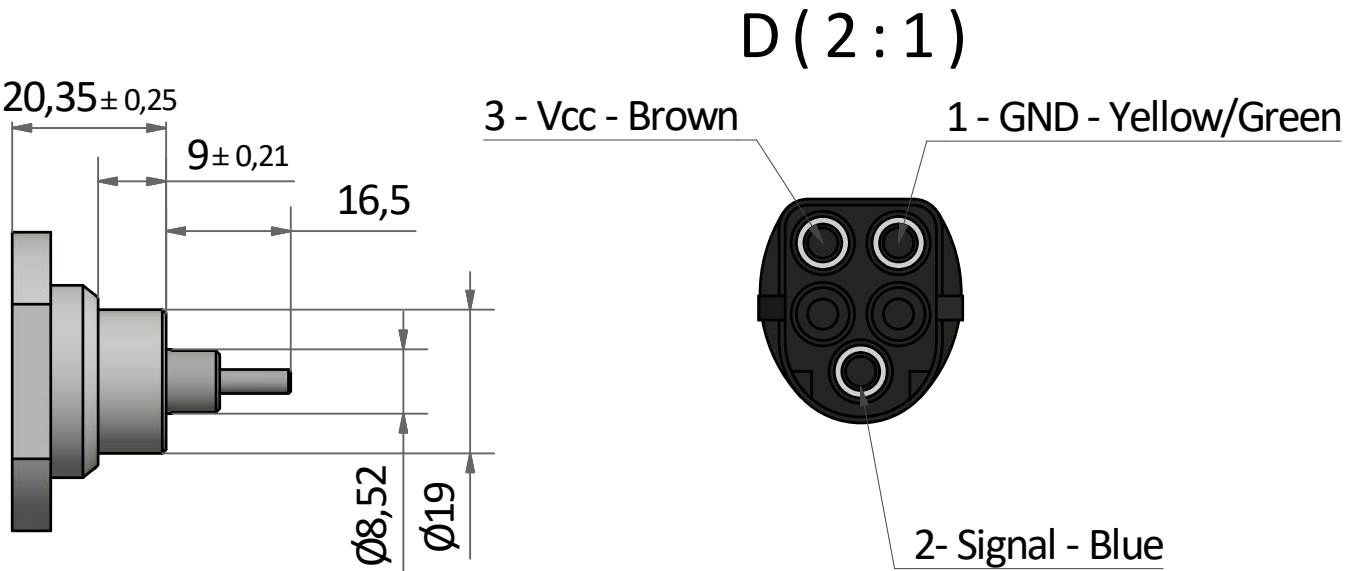
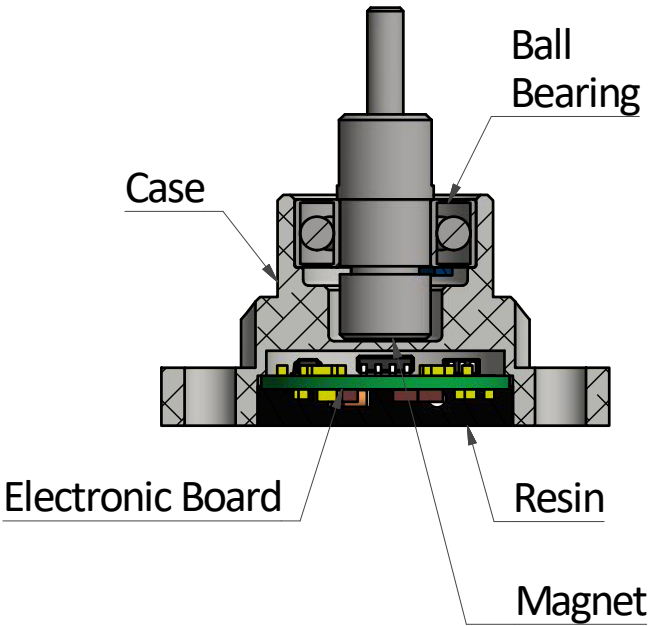
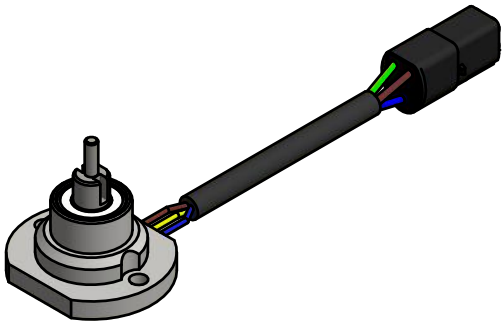
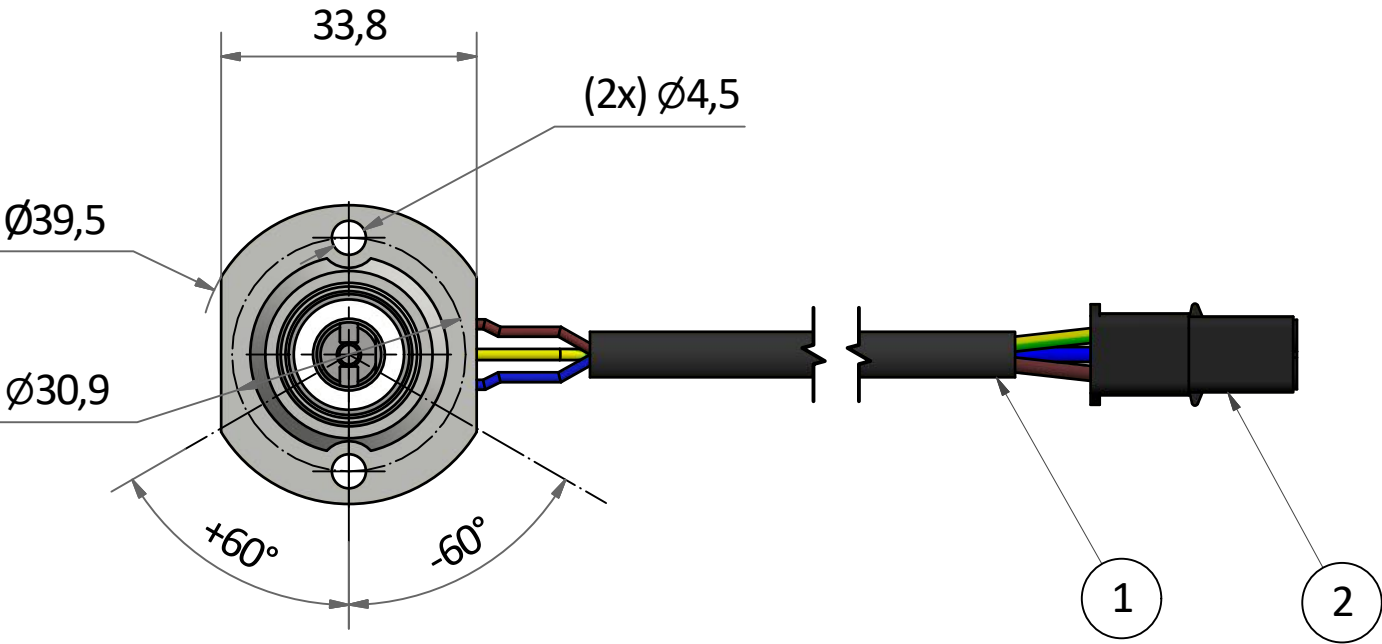
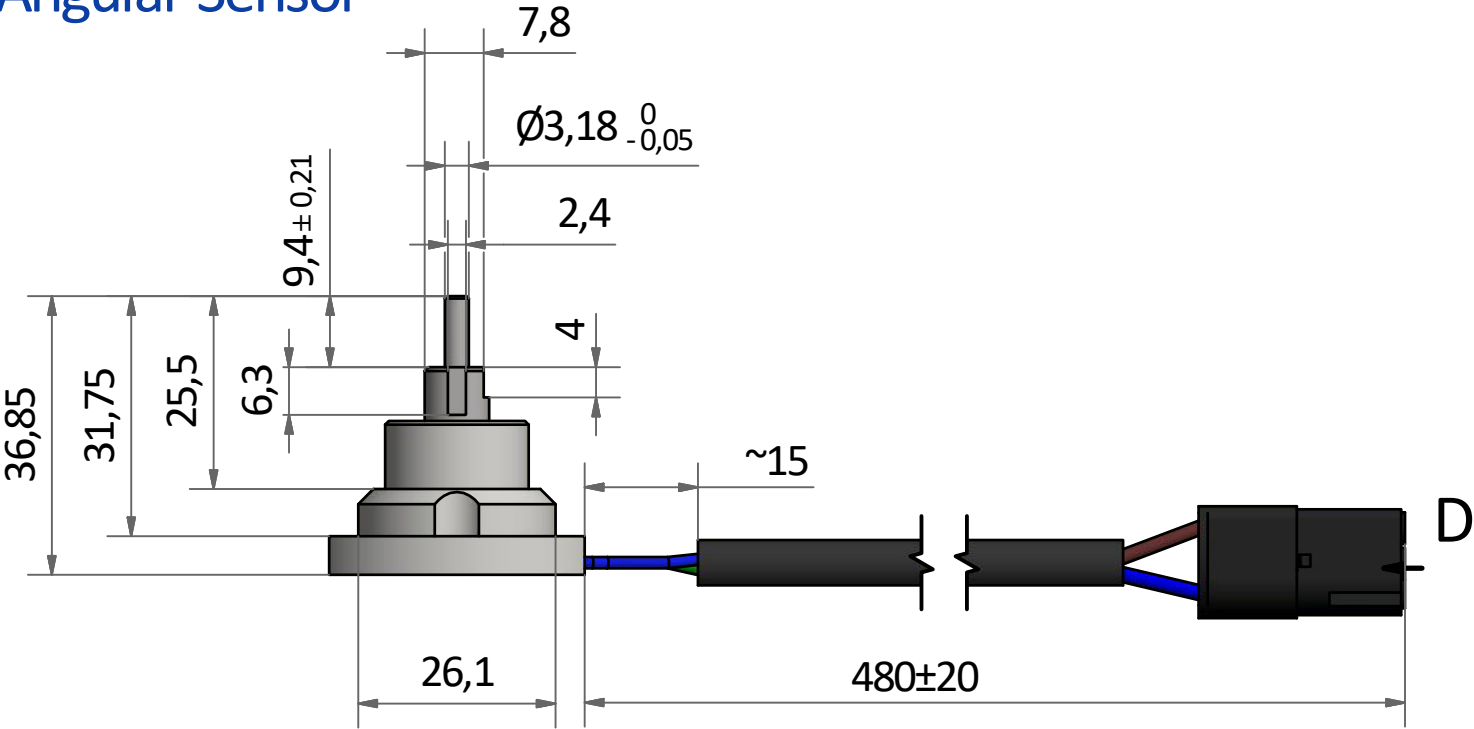


■ Angular Sensor



Ref.	Description	Operating Temperature
1	HT 105° Cable	-25 / +105
2	CONI 1 GHW 5P Connector	-40 / +115



www.elensrl.com Elen Srl - Garbagnate Milanese (MI)

Part Number: AA020502-30

Description: Angular Sensor ±60° 8.5V 4-20mA

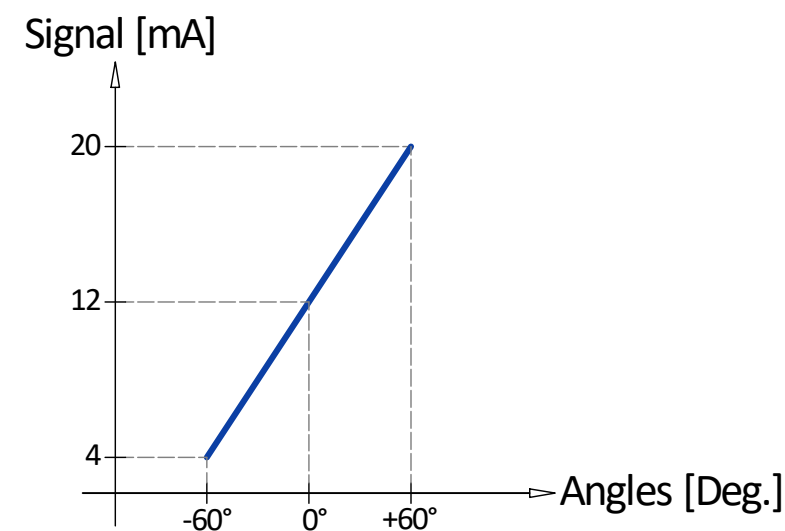
Rev.	Date	Sign.	Review Description

Designed 06/12/2021 Matteo M. Scale: 1 : 1 (A3 format)

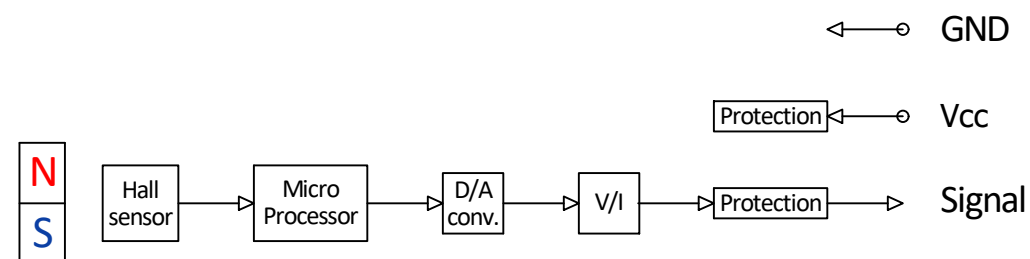
Checked Dimensions without tolerance indication: ISO 2768 - m

Approved Units mm Page 1 / 2

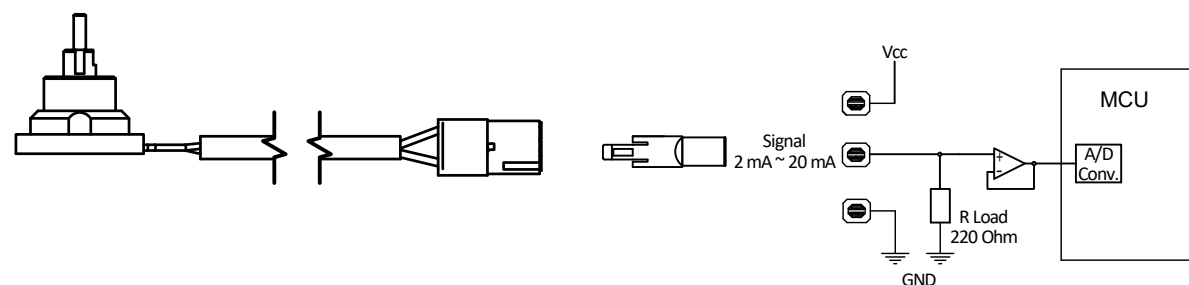
■ Output Signal



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	8.5 V $\pm$ 5%	ELEN PDV Rev. 3 - 5.1
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Resolution	< 0.1°	-
	Reverse Polarity Protection	-30V For 1h	ELEN PDV Rev. 3 - 5.3
	Overload Protection	27mA For 1h	ELEN PDV Rev. 3 - 5.6
	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=8.5V ; <1250 Ohm@ Vin=30V	-
	Supply Current (No Load)	30 mA Max	-
	Signal Output	Linear 4 mA@-60° ; 20 mA@+60° (12 mA@0°)	-
	Output Current	20 mA Max	-
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	Electromagnetic Emissions	Broadband Radiated Emission , Narrowband Radiated	ISO 13766
	ESD Protection	$\pm$ 8kV Contact , $\pm$ 15 kV Air	EN 61000-4-2
	Insulation Resistance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
Environmental	Temperature Operating Voltage	30V@105°C For 1h	ELEN PDV Rev. 3 - 5.7
	Linearity	< $\pm$ 1 %	-
	Operating Temperature	-40°C $\div$ +105°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Storage Temperature	-40°C $\div$ +115°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Degree Of Protection	IP 67	IEC 60529
Mech.	Vibrations Resistance - Sine	(5 $\div$ 12.87) Hz@dis< $\pm$ 15mm , (12,87 $\div$ 200) Hz@dis $\pm$ 15mm@5g, 1 Octave/min , 20 Sweep Cycles	EN 60068-2-6
	Vibrations Resistance - Random	f=10Hz@PSD=1.44 g ² /Hz ; f=100Hz@PSD=3.85 g ² /Hz ; f=1000Hz@PSD=3.85 g ² /Hz ; f=2000Hz@PSD=0.96 g ² /Hz ; 3 Axis - 24h For Axis	EN 60068-2-6
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-
	Lever Material	PA66 + 30%GF	-