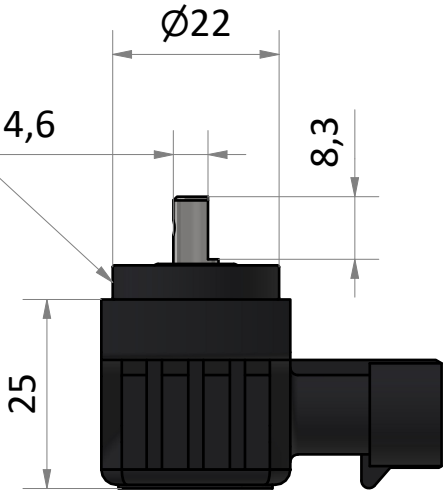
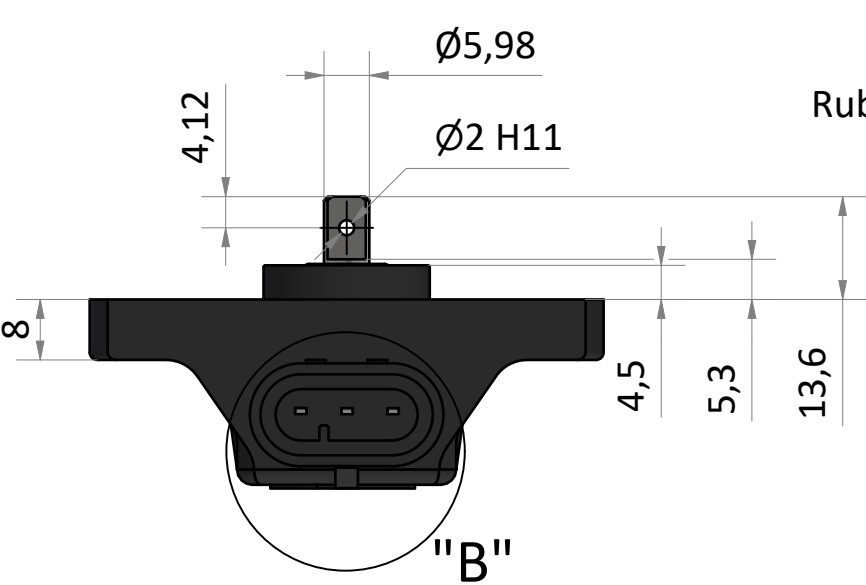
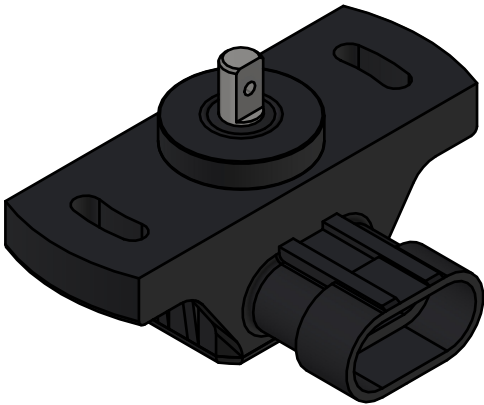
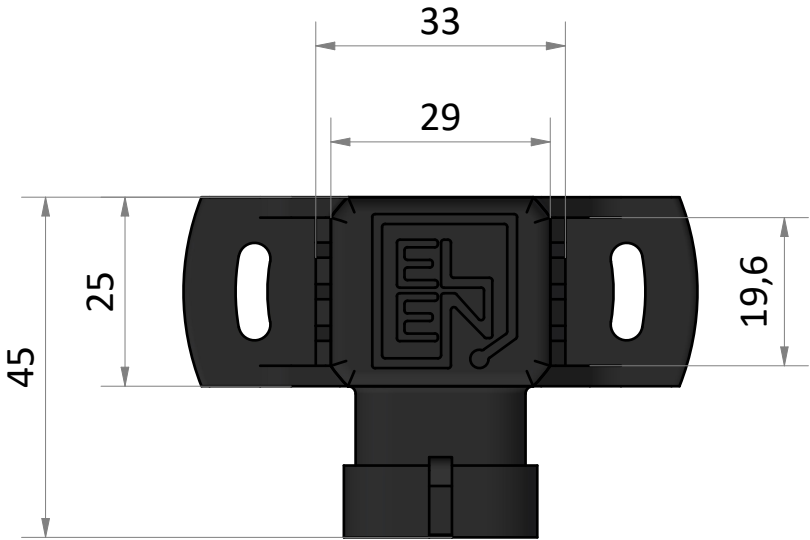
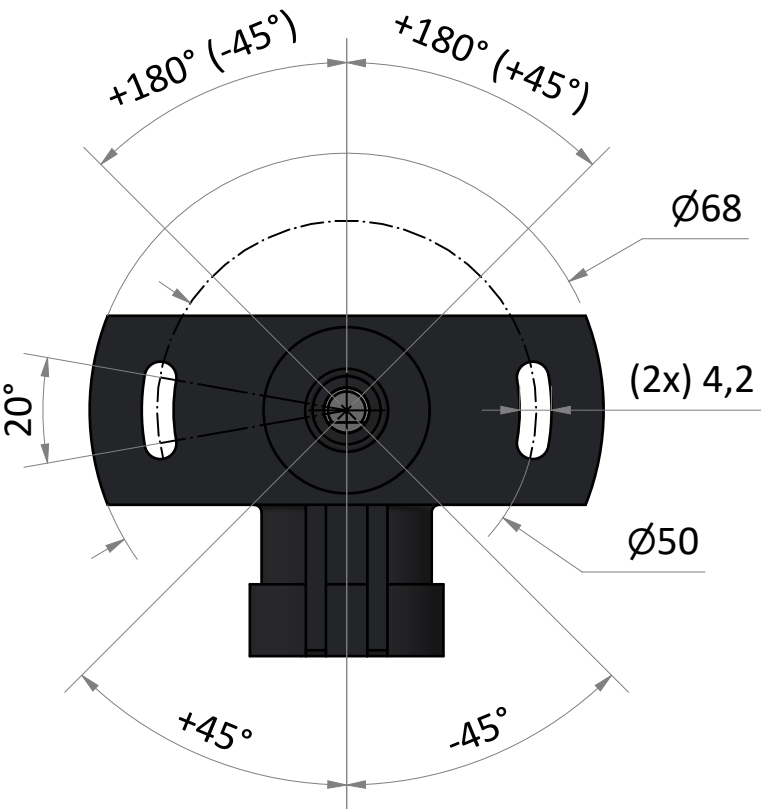
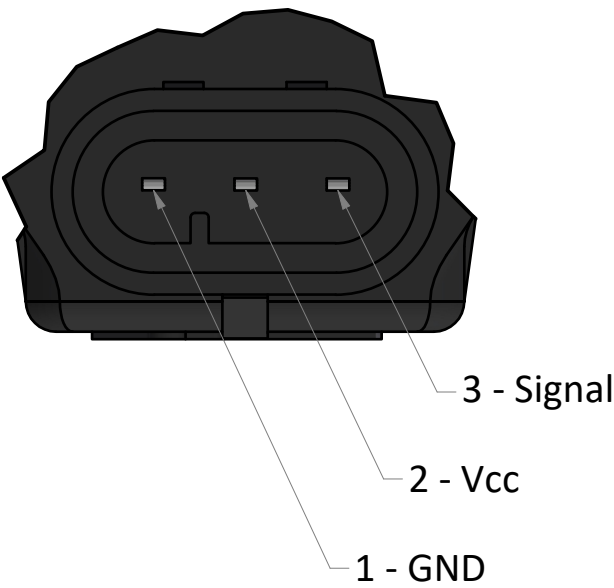


■ Angular Sensor



Details "B" (2 : 1)



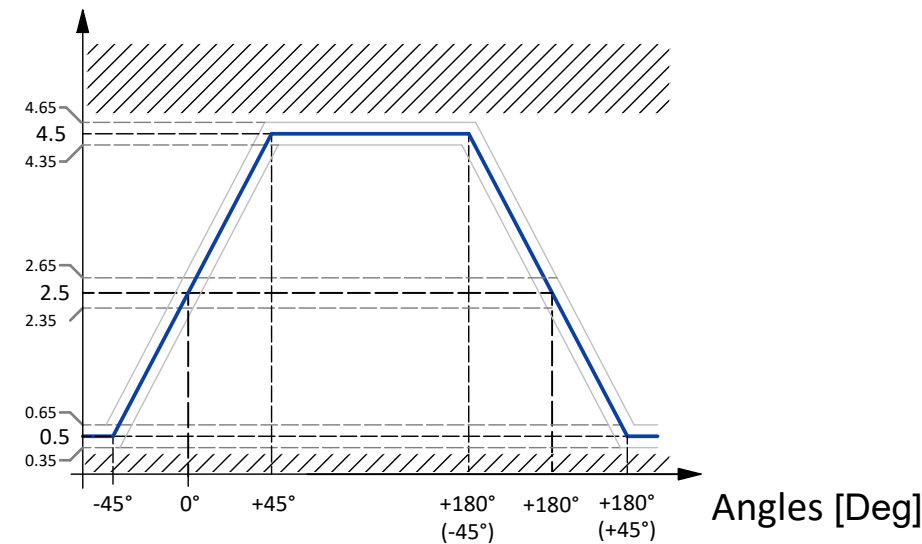
Mating with 3-way Tyco
Superseal connector 282087-1

			
Rev.	Date	Sign.	Review Description

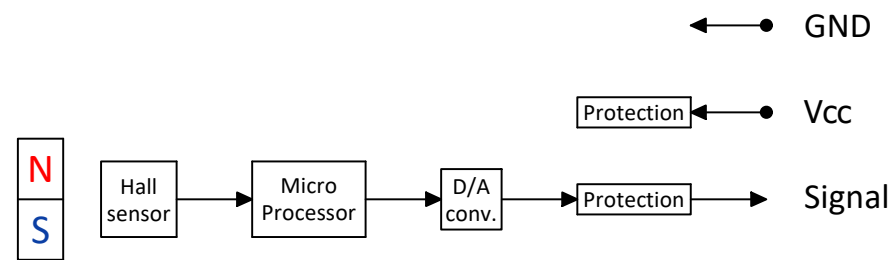
www.elensrl.com		Elen Srl - Caronno Pertusella (VA)	
Part Number:		AA301002-6	
Description:		Angular Sensor 5V	
Designed	30/06/2025	Matteo M.	Scale : 1 : 1 (A3 format)
Checked	30/06/2025		Dimensions without tolerance indication: ISO 2768 - m
Approved	30/06/2025		 Units mm Page 1 / 2

■ Output Signal

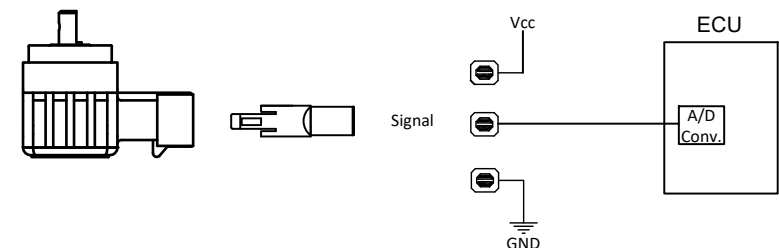
Signal (V) @Vin = 5V



■ 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)	15 mA Max	-
	Signal Output	0,5V ÷ 4,5V [±0.15 V] (2.5V @ 0°)	-
	Overvoltage Protection	6.5V 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
	Reverse Polarity Protection	-5.5V For 1h	ELEN PDV Rev. 3 - 5.3
	Max Load Recommended Output	< 250 Ohm@ Vin=10V ; <820 Ohm@ Vin=24V ; <1250 Ohm@ Vin=30V	-
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	Resolution	12 bit	-
	Dielectric Rigidity	750V@50Hz For 60s	ELEN PDV Rev. 3 - 5.11
	ESD Protection	±8kV Contact , ±15 kV Air	EN 61000-4-2
	Insulation Resitance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Temperature Operating Voltage	5.5V@105°C For 1h	ELEN PDV Rev. 3 - 5.7
	Linearity	< ±1 %	-
Environmental	Operating Temperature (for Electronic Components)	-40°C ÷ +105°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
	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
Mech.	Body Material	Nylon 6.6 + 30% G.F.	-
	Shaft Material	Stainless Steel	-