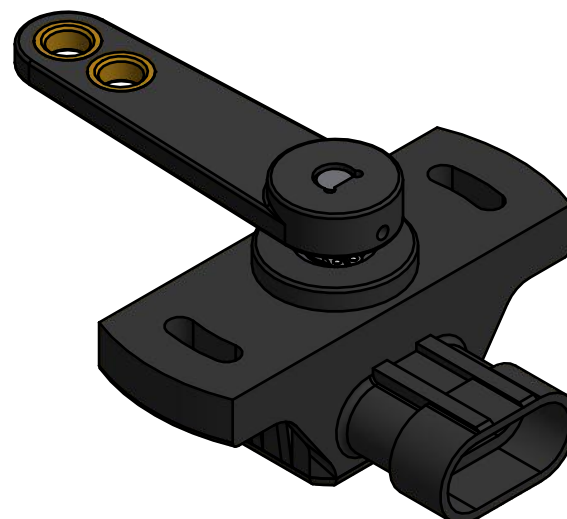
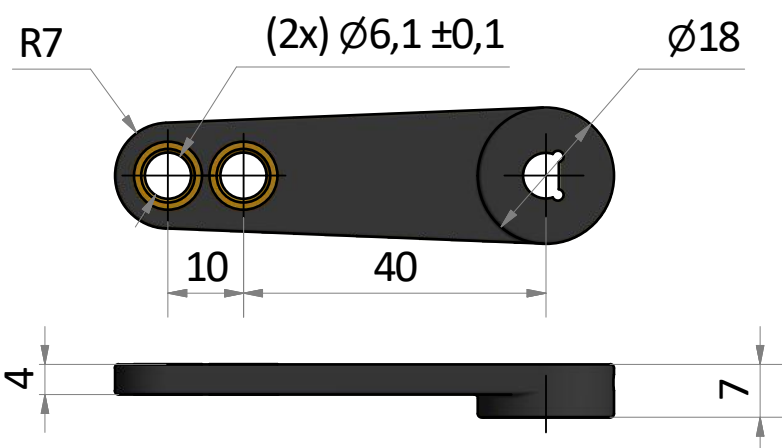
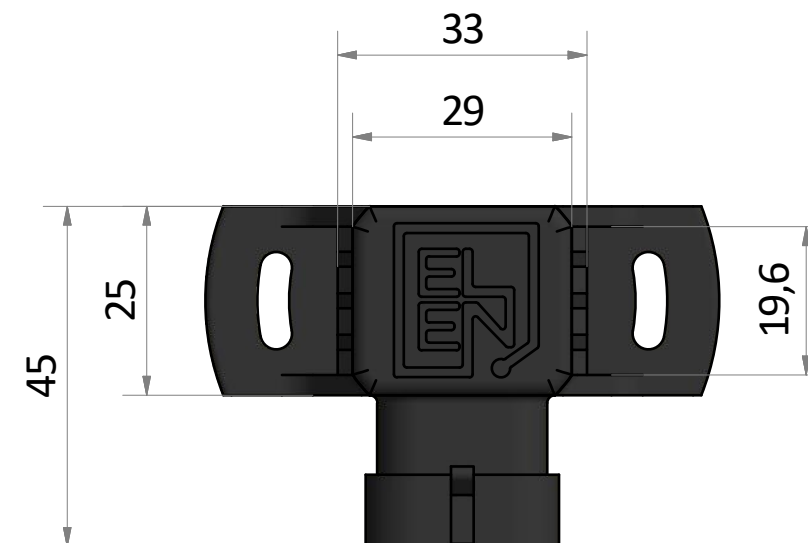
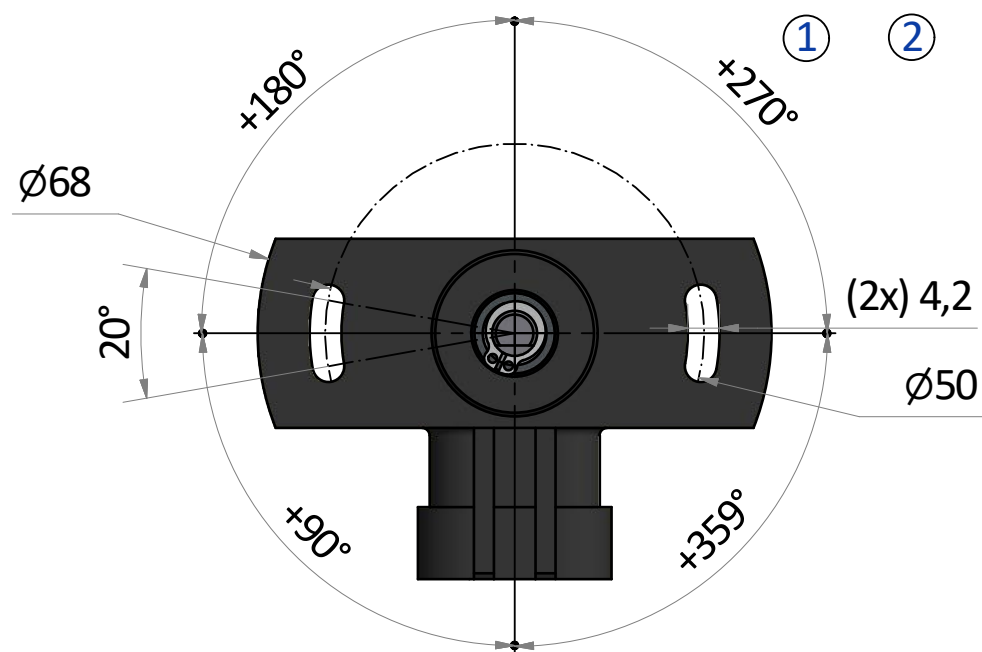
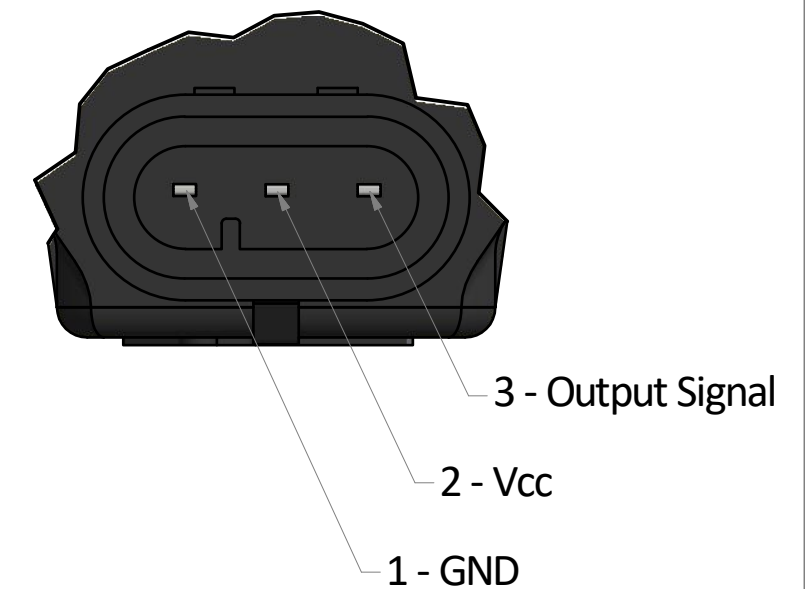
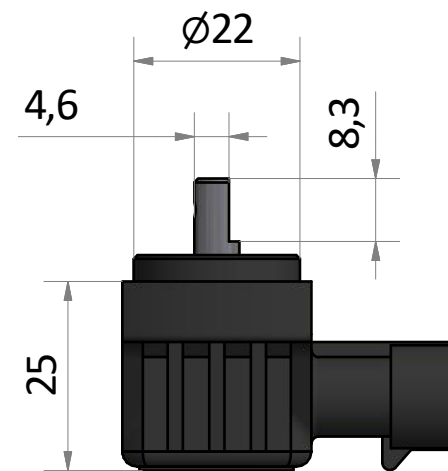
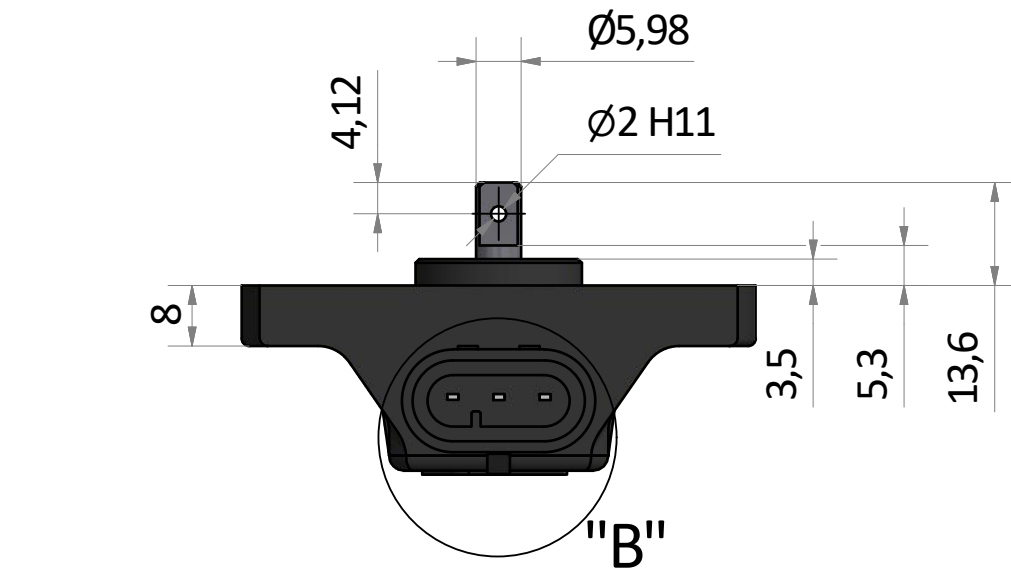


■ Angular Sensor



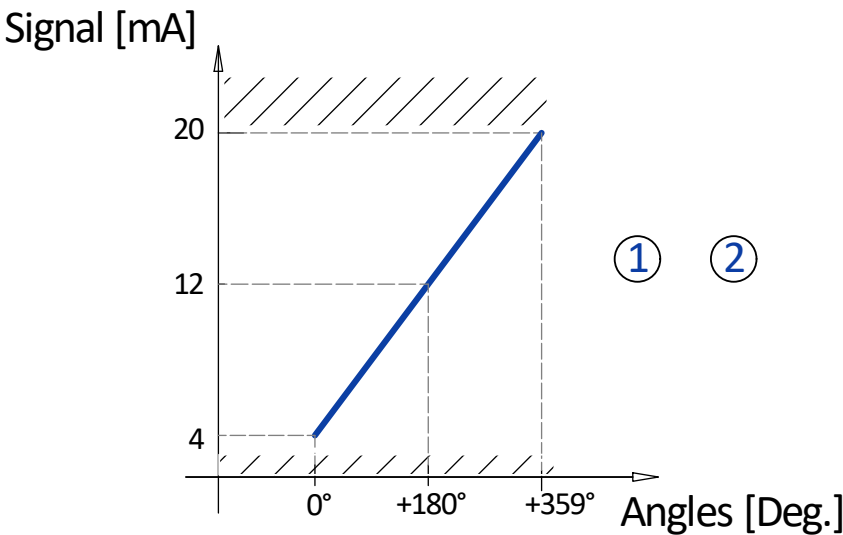
Mating with 3-way Tyco Superseal connector 282087-1



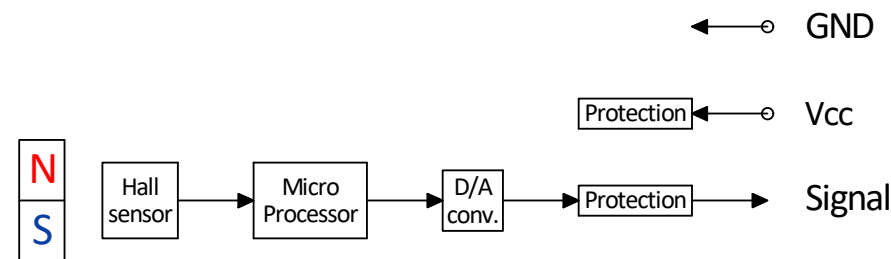
Rev.	Date	Sign.	Review Description
1	24/08/2022	M.M.	Updated Output Signal
2	08/09/2022	M.M.	Back to Rev.0

www.elensrl.com		Elen Srl - Garbagnate Milanese (MI)	
Part Number:		AA301140-4	
Description:		Angular Sensor 10-30V 360°	
Designed	09/05/2022	alorenzetto	Scale : 1 : 1 (A3 format)
Checked	-	-	Dimensions without tolerance indication: ISO 2768 - m
Approved	-	-	 Units mm

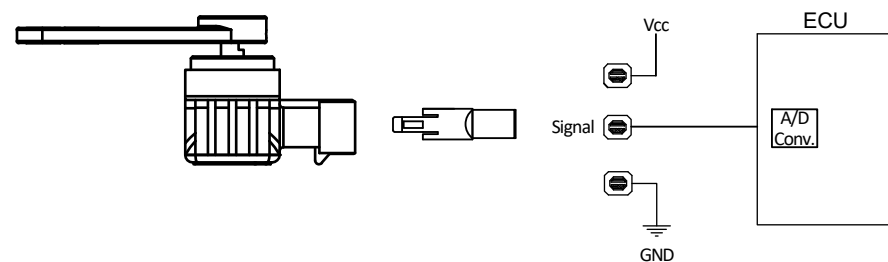
■ Output Signal



■ Functional Scheme



■ Typical Application



■ Technical Specifications

	Specific	Value	Standard Reference
Electrical	Power Supply (Vcc)	Min 10V - Max 30V	ELEN PDV Rev. 3 - 5.1
	Supply Current (No Load)	15 mA Max	-
	Signal Output	Linear 4 ÷ 20 mA	-
	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
	Reverse Polarity Protection	-30V 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 Resistance	1000 MOhm@500V	ELEN PDV Rev. 3 - 5.10
	Temperature Operating Voltage	30V@105°C For 1h	ELEN PDV Rev. 3 - 5.7
Environmental	Linearity	< ±1 %	-
	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)	-40°C ÷ +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
Mech.	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
	Body Material	Nylon 6.6 + 30% G.F.	-
	Shaft Material	Stainless Steel	-