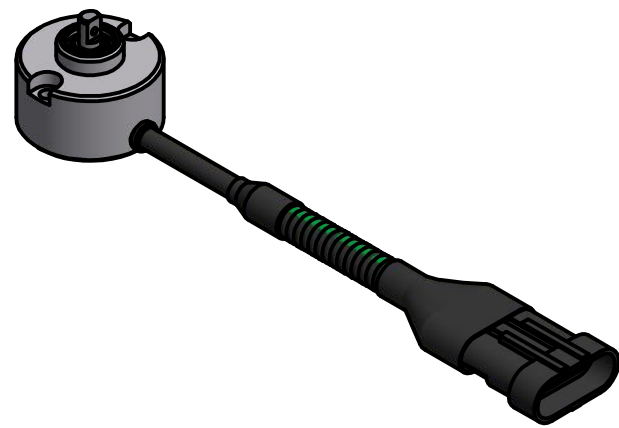
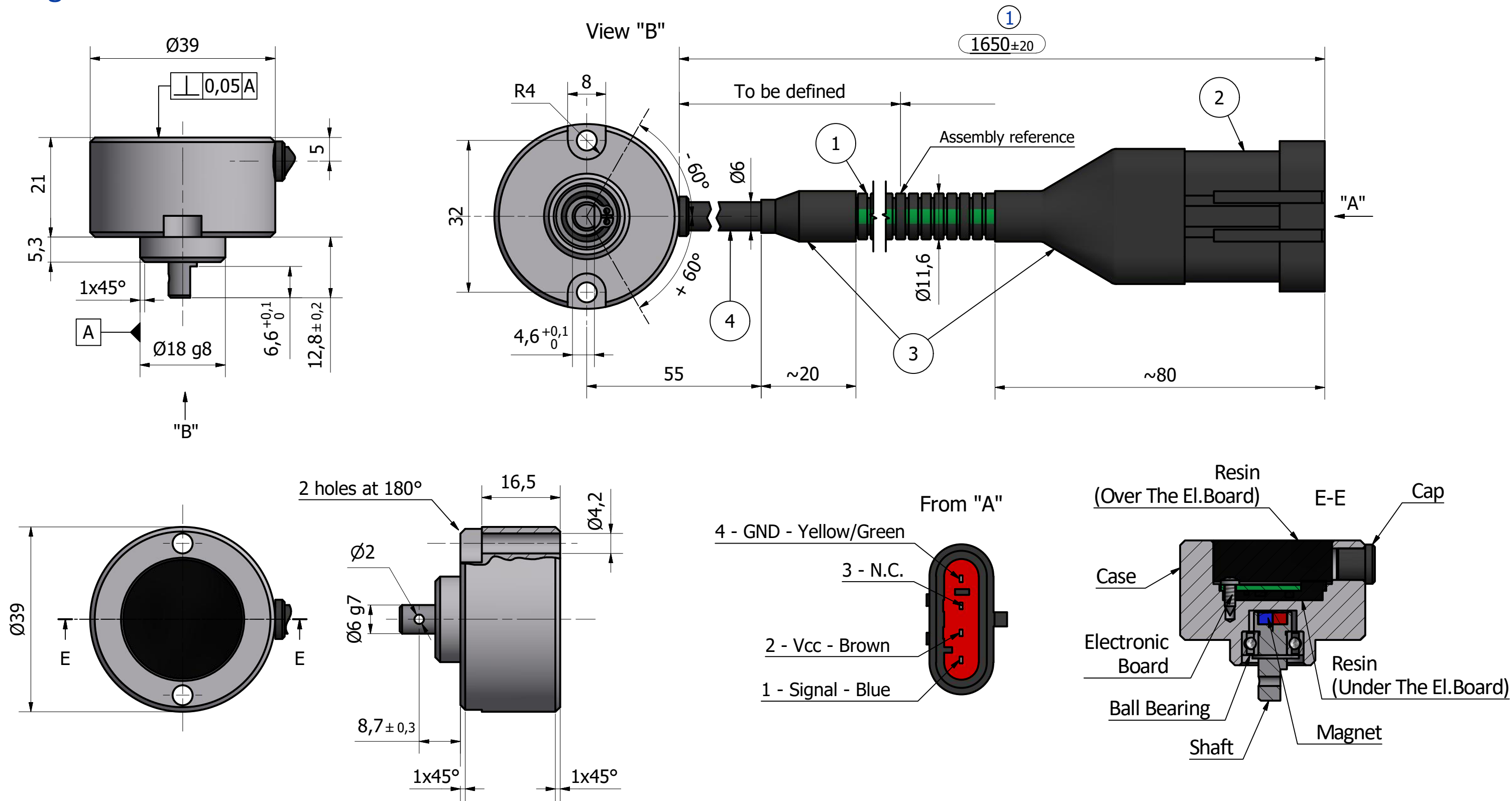


■ Angular Sensor

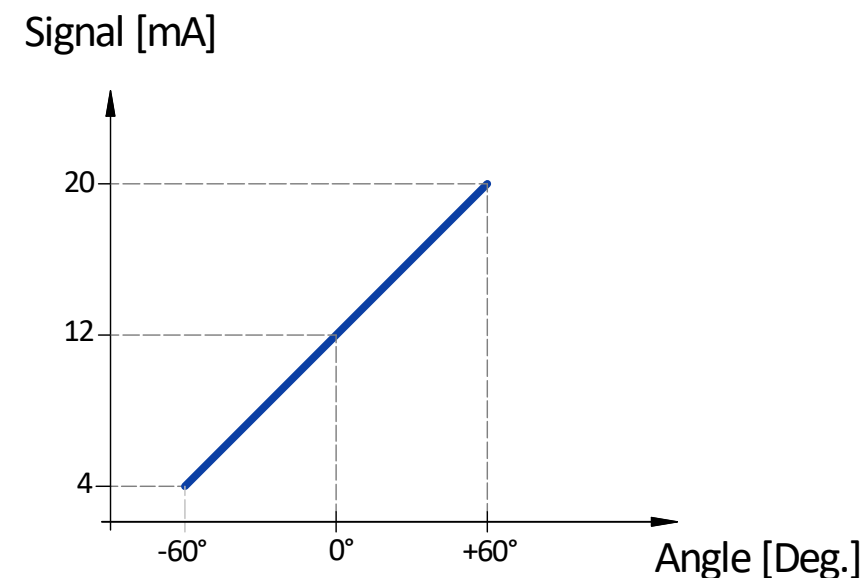


Ref.	Description	Operating Temperature
1	Corrugated Conduit	-40 / +135
2	4 Pin Tyco SuperSeal 1.5 Series Connector	-40 / +125
3	Thermo-Shrink Tube (Min thicknss - Max flexibility)	-55 / +125
4	HT 105 Cable	-25 / +105

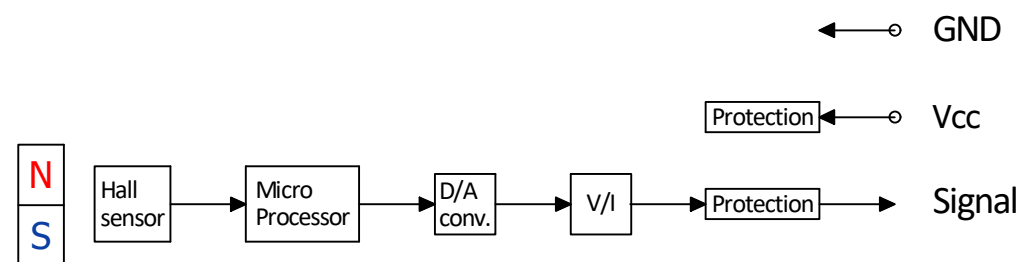
 ELEN industrial vehicles sensors				www.elensrl.com				Elen Srl - Garbagnate Milanese (MI)			
Rev.				Date				Part Number:			
1				15/11/2023				AA020502-33			
Sign.				M.M.				Description:			
				Changed Cable Length				Angular Sensor ±60°			
								Designed			
								16/03/2021			
								Giulia M.			
								Scale :			
								1.25 : 1 (A3 format)			
								Checked			
								16/03/2021			
								Mauro Canavesi			
								Approved			
								16/03/2021			
								Mauro Canavesi			

www.elensrl.com				Elen Srl - Garbagnate Milanese (MI)			
Part Number:				AA020502-33			
Description:				Angular Sensor ±60°			
Designed				16/03/2021			
Giulia M.				Scale :			
1.25 : 1 (A3 format)				Checked			
16/03/2021				Mauro Canavesi			
Approved				16/03/2021			
Mauro Canavesi				Units			
				mm			
				Page 1 / 2			

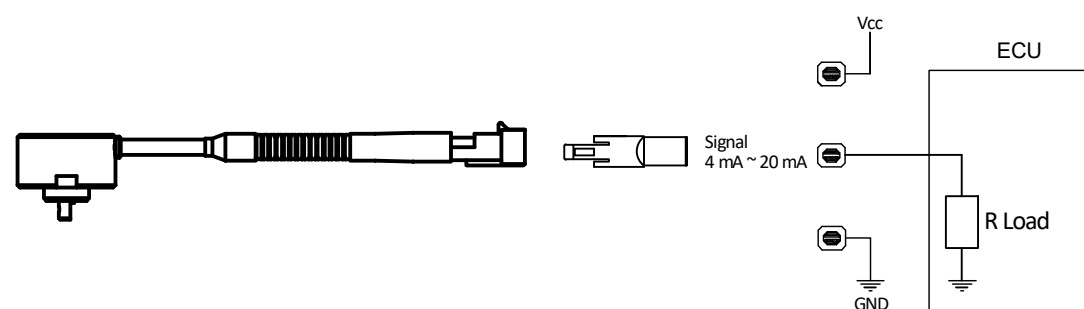
■ Output Signal



■ 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)	30 mA Max	-
	Signal Output	Linear 4 ÷ 20 mA	-
	Reverse Polarity Protection	-30V For 1h	ELEN PDV Rev. 3 - 5.3
	Overvoltage Protection	36V For 1h	ELEN PDV Rev. 3 - 5.7
	Output Short Circuit Protection	To Ground For 5' To Vcc For 5'	ELEN PDV Rev. 3 - 5.4
	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	30V@100°C For 1h	ELEN PDV Rev. 3 - 5.8
Environmental	Linearity	< ±1 %	-
	Operating Temperature (for Electronic Components)	-25°C ÷ +100°C	IEC 60068-2-1 ; IEC 60068-2-2 ; IEC 60068-2-30 ; IEC60068-2-14
	Storage Temperature (for the Assembly)	-25°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
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; ENS 0310 Rev. J
	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-