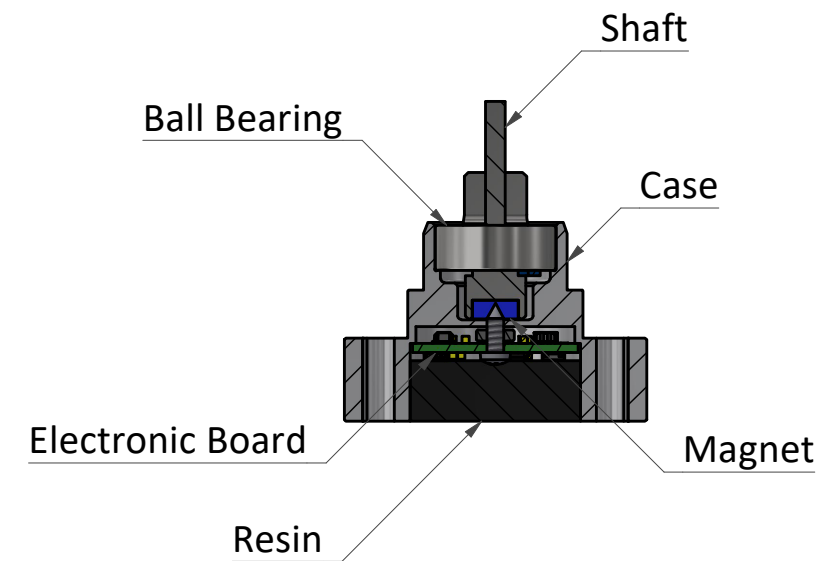
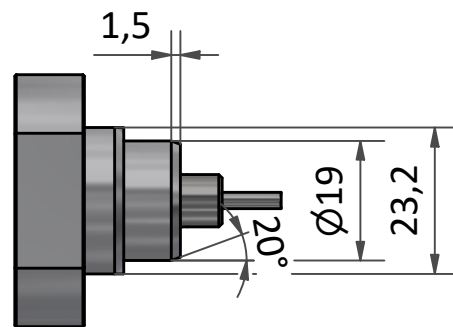
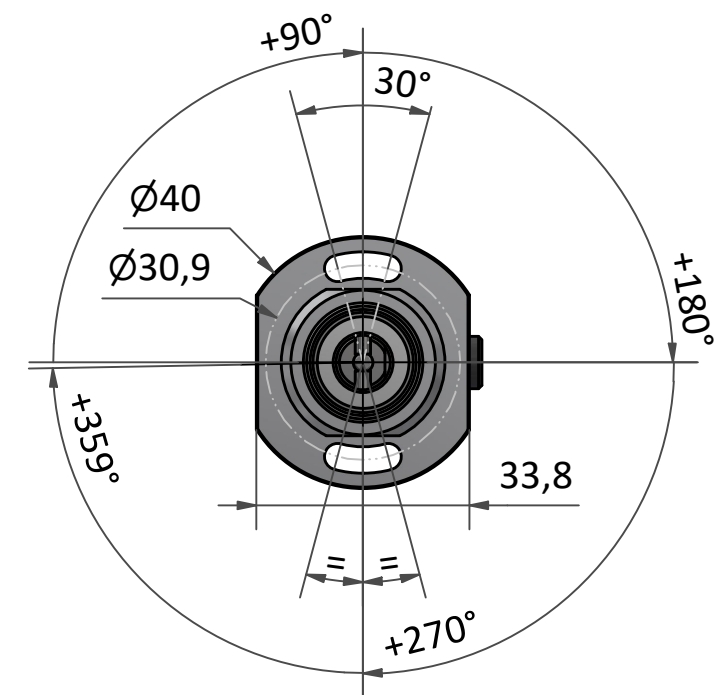
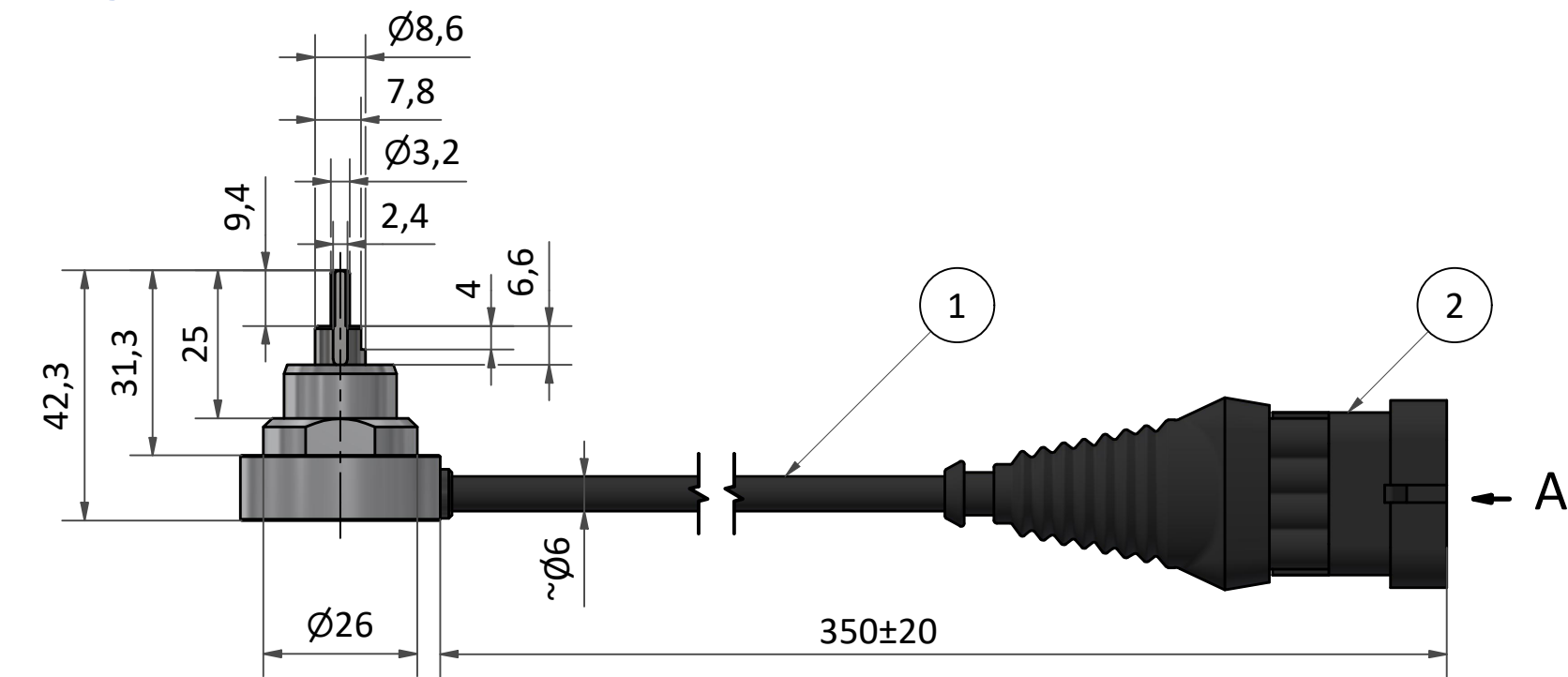
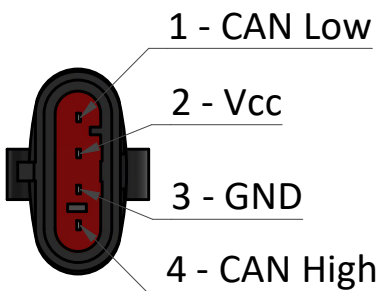


■ Angular Sensor



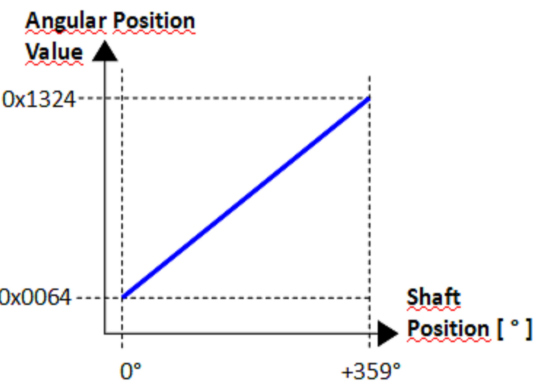
View from "A"



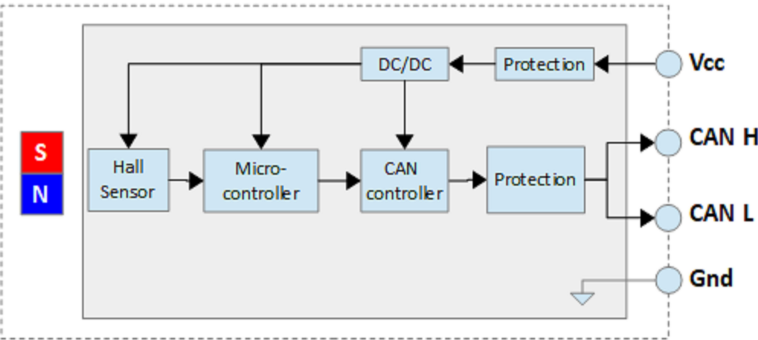
Ref.	Description	Operating temperature
1	Cable HT 105°C	-25 / +105
2	4 Way Tyco SuperSeal Connector	-40 / +125

 ELEN industrial vehicles sensors				www.elensrl.com		Elen Srl - Caronno Pertusella (VA)			
				Part Number:		AA344009			
				Description:		Angular Sensor CAN BUS +359°			
Rev.	Date	Sign.	Review Description	Designed	05/11/2025	Giulia M.	Scale : 1 : 2.5 (A3 format)		
				Checked	05/11/2025		Dimensions without tolerance indication: ISO 2768 - m		
				Approved	05/11/2025			Units mm	Page 1 / 3

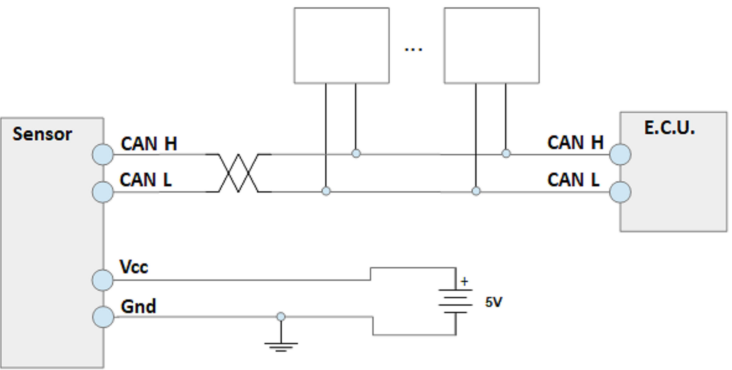
■ Output Signal



■ 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
	EMC Compatibility	BCI - Class "A" - 100mA ; 1~400 MHz	ISO 11452-4
	EMC Compatibility - Magn.Field Imm.	15Hz ÷ 150 kHz	ISO 11452-8 : 2007
	Reverse Polarity Protection	-5.5V For 1h (-20V For 1h)	ELEN PDV Rev. 3 - 5.3
	Overvoltage Protection	6.5V For 1h (20V 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
	Supply Current (No Load)	60 mA Max	-
	Signal Output	CAN J1939 Default Baudrate 250 kb/s Default message cadence 50 ms	-
	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@125°C For 1h	ELEN PDV Rev. 3 - 5.8
Environmental	Resolution	< 0.1°	-
	Linearity	< ±1%	-
	Operating Temperature (for Electronic Components)	-40°C ÷ +125°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	IEC 60068-2-6 ; ISO15998
	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	IEC 60068-2-64 ; ENS0310 Rev.J
Mech.	Body Material	Aluminium With Antioxidant Treatment	-
	Shaft Material	Stainless Steel	-

■ CAN Message

Device ID	0x FA
Baud Rate	250 kbps
Message cadence	50 ms

29-bits CAN Id	PGN [0x 0C FF 12]																					Source Address [0x FA]
Bit	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7..0
Descrtiption	Priority			R	DP	PDU Format (PF)								PDU Specific (PS)							Device ID	
Value	0	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0xFA
	0x C0 00 00																					

CAN Data	BYTE 1								BYTE 2				BYTE 3				BYTE 4	BYTE 5	BYTE 6								BYTE 7				BYTE 8									
Bit	7	6	5	4	3	2	1	0	15 .. 0								7..0				7..0				7	6	5	4	3	2	1	0	7..0				7..0			
Descrtiption	Not Used		Not Used		Not Used		Not Used		Angular Position (Low Byte)				Angular Position (High Byte)				Not used				Not used				Not used				SPN 4206				CRC16 (Low Byte)				CRC16 (High Byte)			
Value	1	1	1	1	1	1	1	1	0x 0064 ÷ 0x 1324								0x FF				0x FF				1	1	1	1	Rolling Counter											
	0x FF																																							

Preliminary