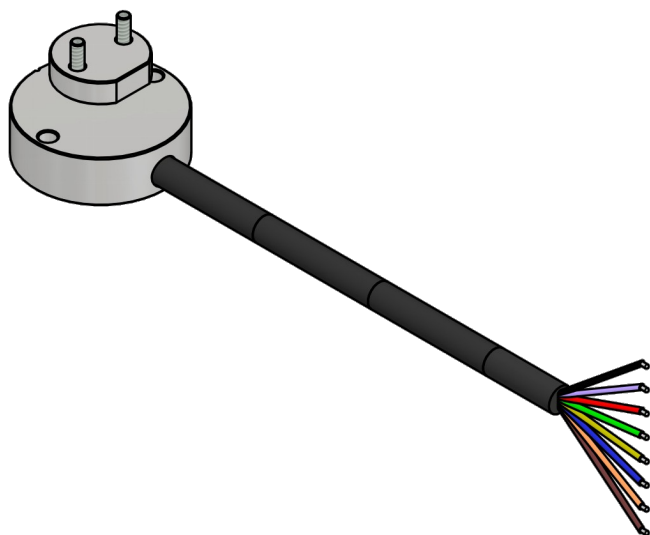
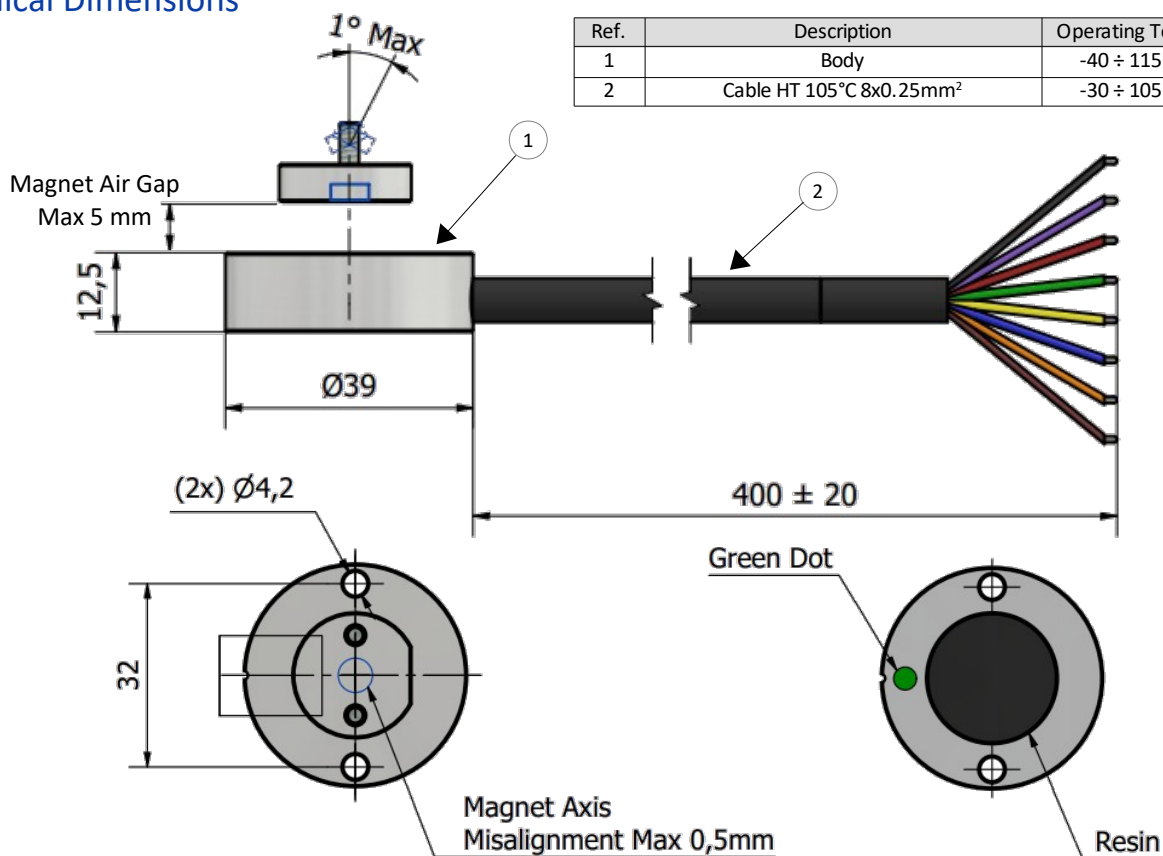




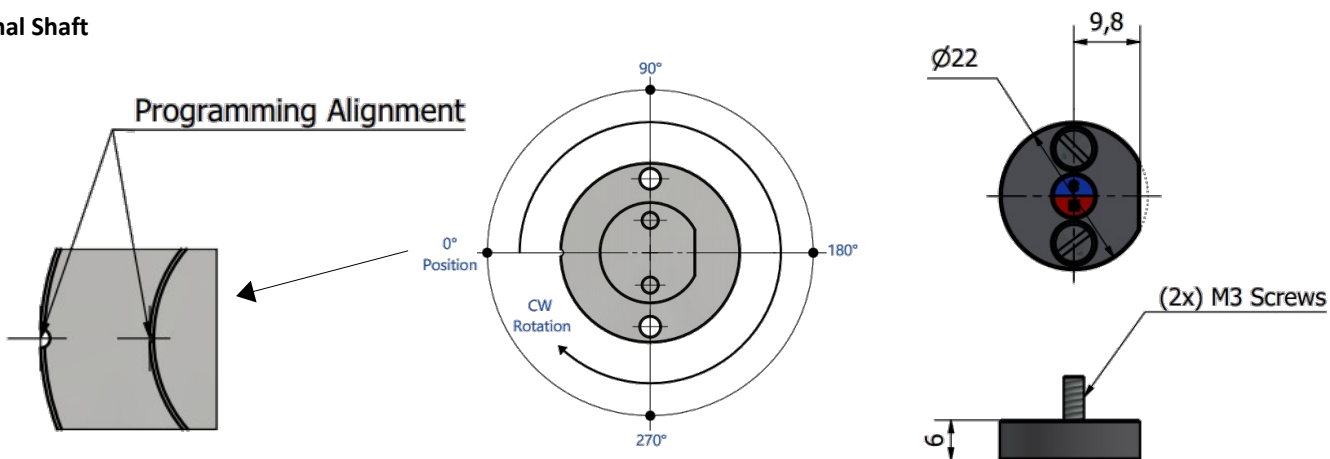
- ◆ 5Vdc supply
- ◆ External magnet
- ◆ Dual sensor
- ◆ Redundant signals
- ◆ -40 / +115 °C Operating temperature

■ Mechanical Dimensions

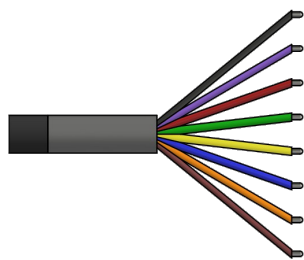
Units: mm



External Shaft



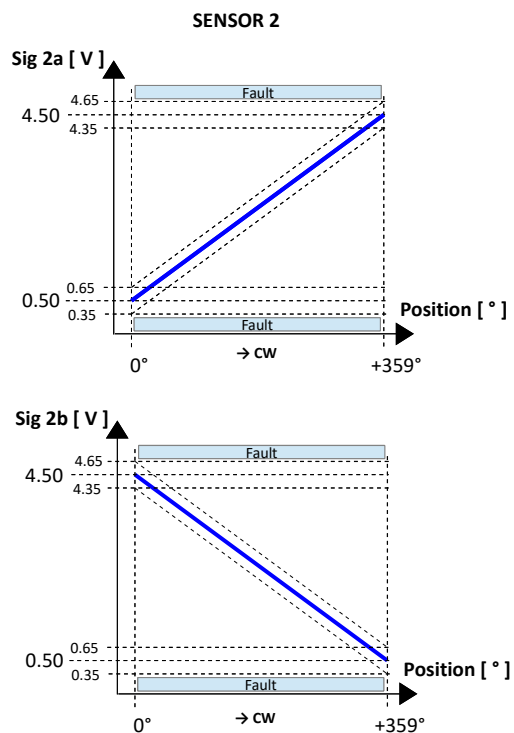
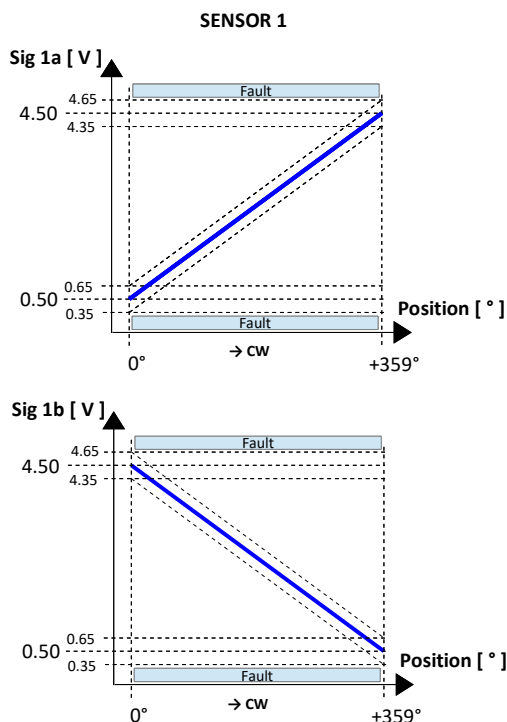
Connector Pin Out



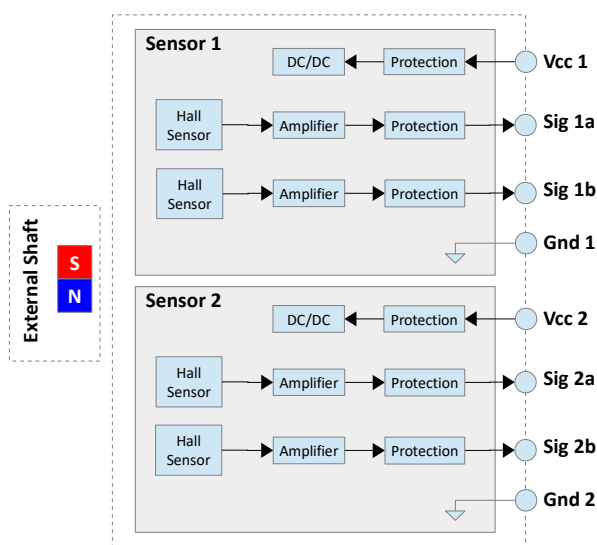
	Wire	Signal
Sensor 1	Red	Vcc 1
	Yellow	Sig 1a
	Blue	Sig 1b
	Black	Gnd 1
Sensor 2	Orange	Vcc 2
	Violet	Sig 2a
	Green	Sig 2b
	Brown	Gnd 2

1

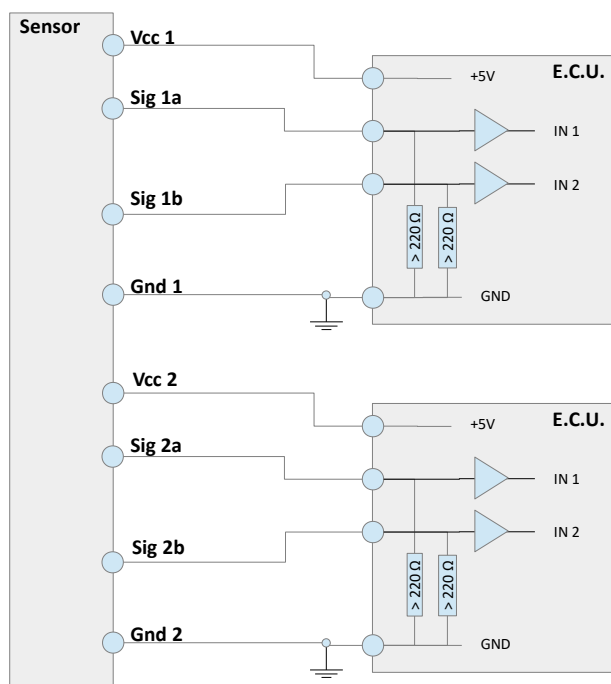
Output Signal



Functional Scheme



Typical Application



■ Technical Specifications

	Specific	Value	Standard Ref
Electrical	Power Supply (Vcc)	4.5Vdc ÷ 5.5Vdc	ELEN PDV Rev.3 – 5.1
	Supply Current (No Load)	< 15 mA for sensor (no load)	ELEN PDV Rev.3 – 5.2
	Overvoltage Protection	20V for 1h	ELEN PDV Rev.3 – 5.7
	Reverse Polarity Protection	-12V for 1h	ELEN PDV Rev.3 – 5.3
	Output signal	See "Output Signal" section	-
	Output Current	1mA max for channel	ELEN PDV Rev.3 – 5.5
	Recommended Load	> 4.7kΩ for channel	-
	Output Overload Protection	1.2mA for 1h	ELEN PDV Rev.3 – 5.6
	Output Shortcircuit Protection	To GND for 5' ; to Vcc for 5'	ELEN PDV Rev.3 – 5.4
	Resolution	12 bit	-
	Linearity	< ±1%	-
	Dielectric Rigidity	750V @ 50Hz for 60"	ELEN PDV Rev.3 – 5.11
	Insulation Resistance	1000MΩ @ 500V	ELEN PDV Rev.3 – 5.10
	EMI Compatibility	BCI - Class "A" - 100mA ; 1÷400 Mhz	ISO 11452-4
	ESD Protection	±8kV Contact ; ±15kV Air Discharge	EN 61000-4-2
	Temp. Operating Voltage	5.5V @ 105°C for 1h	ELEN PDV Rev.3 – 5.8
Environmental	Operating Temperature	-40°C ÷ +115°C	EN 60068-2-1; EN 60068-2-2; EN 60068-2-30; EN 60068-2-14
	Storage Temperature	-40°C ÷ +105°C	EN 60068-2-1; EN 60068-2-2; EN 60068-2-30; EN 60068-2-14
	Protection rating	IP68	
	Vibrations Resistance (Sine)	[5÷12.87] Hz @ dis ±15mm, [12.87÷200] Hz @ dis <15m @ 5g, 1 Octave/min, 20 Sweep Cycles	EN 60068-2-64; ISO 15998
	Vibrations Resistance (Random)	f = 10Hz @ PSD = 1.44g ² /Hz; f = 100Hz @ PSD = 3.85g ² /Hz; f = 1000Hz @ PSD = 3.85g ² /Hz; f = 2000Hz @ PSD = 0.96g ² /Hz; 3 Axis – 24h for Axis	EN 60068-2-6 ENS 0310 Rev. J
Mech.	Body Material	Aluminium with Antioxidant Treatment	-
	Ext. Shaft Material	Stainless Steel	-

■ Reviews

Rev.	Date	Review Description	Sign
0	19/05/2025	Initial release	M.B.
1	25/07/2025	Updated Connector Pin-Out	M.B.