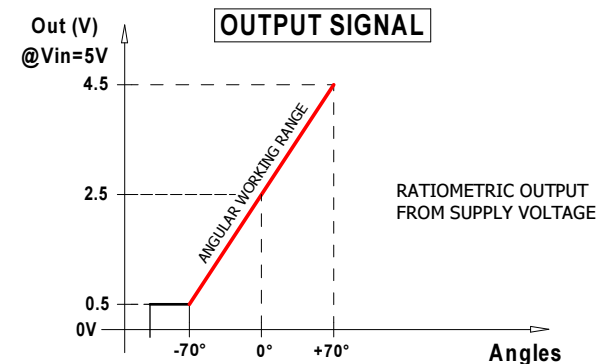
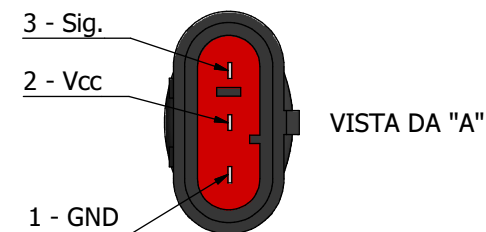
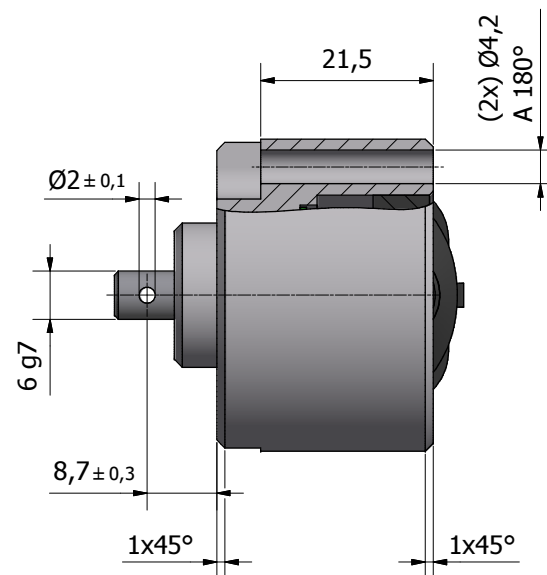
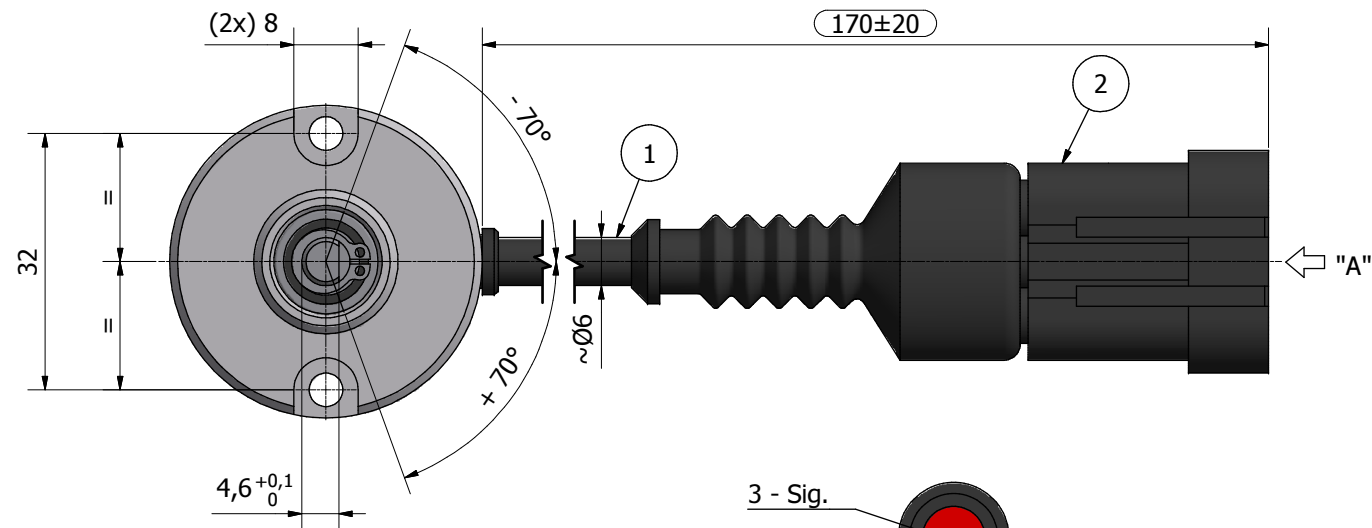
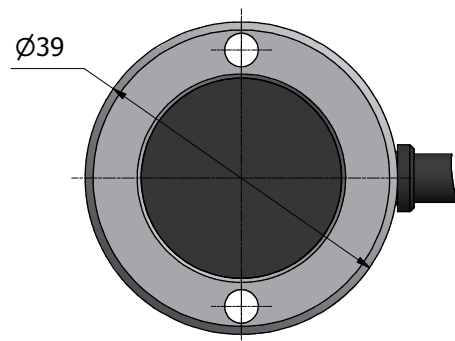
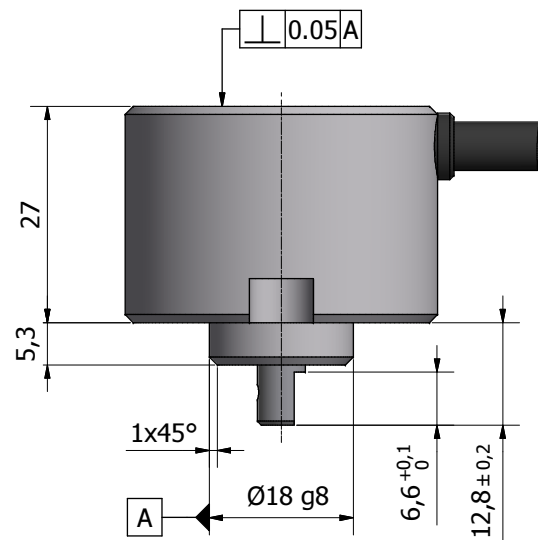


HALL EFFECT CONTACTLESS ANGULAR SENSOR

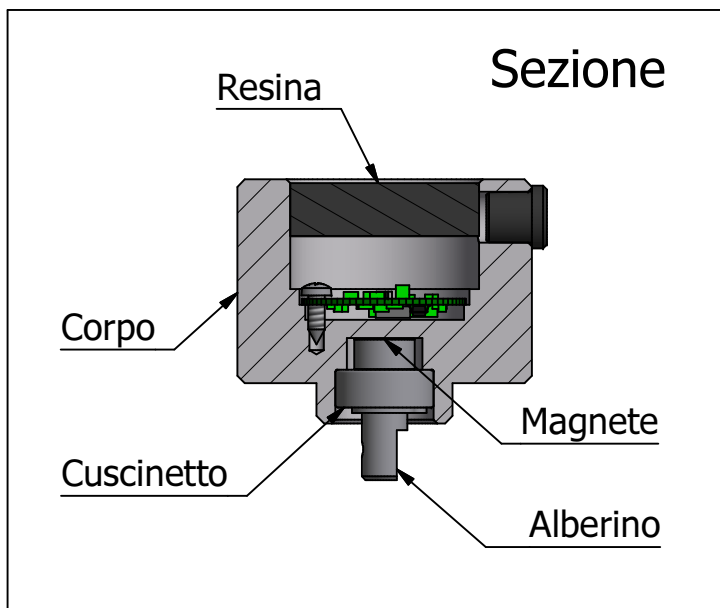


RIF.	DESCRIZIONE	TEMPERATURA DI FUNZ. (°C)
1	Cavo HT 105°C 3X0.5mm ²	-25 / +105
2	Conn. Tyco Superseal 1.5 series 3 vie	-40 / +125

	DESCR. ULT. REV:		ELEN srl Viale Forlanini 71 Garbagnate Milanese (MI)	
	DATA: 16/12/2015	SCALA: 1.5:1	DENOMINAZIONE: Sensore Angolare H=27mm Tyco 3 Vie	
REV.	DATA	FIRMA	CODICE PRODOTTO: AA020575-3	1/3
			UNITA DI MISURA: mm	Quote senza indicazione di tolleranza: ISO 2768 - m

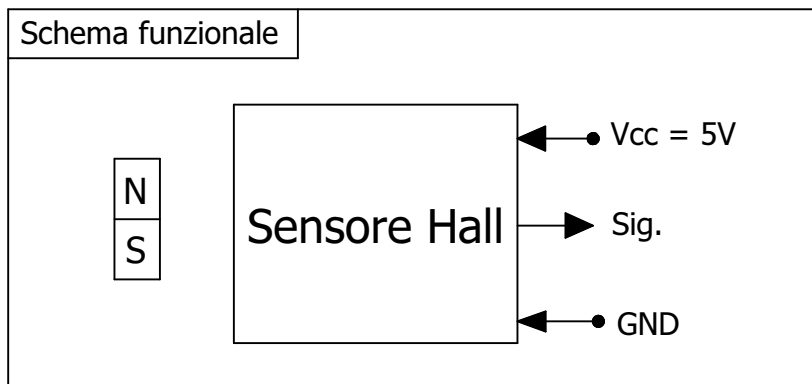
CARATTERISTICHE:

SENSORE ANGOLARE EFFETTO HALL
RANGE TENSIONE DI ALIMENTAZIONE: 4.5V ÷ 5.5V
TEMPERATURA DI FUNZIONAMENTO: -40°C ÷ +105°C
TEMPERATURA D'IMMAGAZZINAMENTO: -40°C ÷ +115°C
PROTEZIONE SUI CORTOCIRCUITI DELL'USCITA
USCITA LINEARE: 0,5V ÷ 4,5V (2.5V @ 0°) con alimentazione 5V
CORRENTE DI USCITA MASSIMA: 1mA
CARICO MASSIMO CONSIGLIATO IN USCITA: R >5 kOhm
RISOLUZIONE: 12bit
LINEARITA': <±1%
DERIVA TERMICA: <±1%
ASSORBIMENTO CORRENTE (no load): TIPICA 8 mA ÷ MAX 10 mA
GRADO DI PROTEZIONE: IP67
CORPO: ALLUMINIO CON TRATTAMENTO ANTIOSSIDANTE
ALBERINO: ACCIAIO INOX



TEMPERATURA DI FUNZIONAMENTO	-40°C ÷ +105°C	EN 60068-2-1;EN 60068-2-2 EN 60068-2-30
RESISTENZA A VIBRAZIONI	Campo di frequenza: 5 a 200 Hz (max 5g) Numero di cicli: 20 (1 ottava/min) Assi di vibrazione: x, y, z	EN 60068-2-6
GRADO DI PROTEZIONE	IP 67	IEC 60529
COMPATIBILITA' Elettromagnetica EMC	BCI - CLASS "A" - 100mA ; 1÷400 MHz	ISO 11452-4 (2005)
PROTEZIONE ESD	±8kV contatto ; ±15kV aria	EN 61000-4-2
PROTEZIONI DA SOVRATENSIONI IN INGRESSO	+20V	ELEN PDV Rev.3 - 5.7
PROTEZIONI DA INVERSIONE DI POLARITA'	-12V	ELEN PDV Rev.3 - 5.3
PROTEZIONE DA SOVRACCARICO	20 mA PER 5'	ELEN PDV Rev.3 - 5.6
PROTEZIONE DA CORTO CIRCUITO DELL'USCITA	VERSO VCC (MAX 18V) PER 5' VERSO GND PER 5'	ELEN PDV Rev.3 - 5.4
TENSIONE D'ALIMENTAZIONE	MIN 4.5V - MAX 5.5V	ELEN PDV Rev.3 - 5.1

Schema funzionale



CHARACTERISTICS:

HALL EFFECT CONTACTLESS ANGULAR SENSOR

POWER SUPPLY RANGE: 4.5V ÷ 5.5V

OPERATING TEMPERATURE RANGE: -40°C ÷ +105°C

STORAGE TEMPERATURE RANGE: -40°C ÷ +115°C

OUTPUT SHORTCIRCUITS PROTECTION

LINEAR OUTPUT: 0,5V ÷ 4,5V (2.5V @ 0°) with 5V power supply

MAXIMUM OUTPUT CURRENT: 1mA

MAXIMUM LOAD RECOMMENDED OUTPUT: R >5 kohm

RESOLUTION: 12 bit

LINEARITY: <±1%

THERMAL DRIFT: <±1%

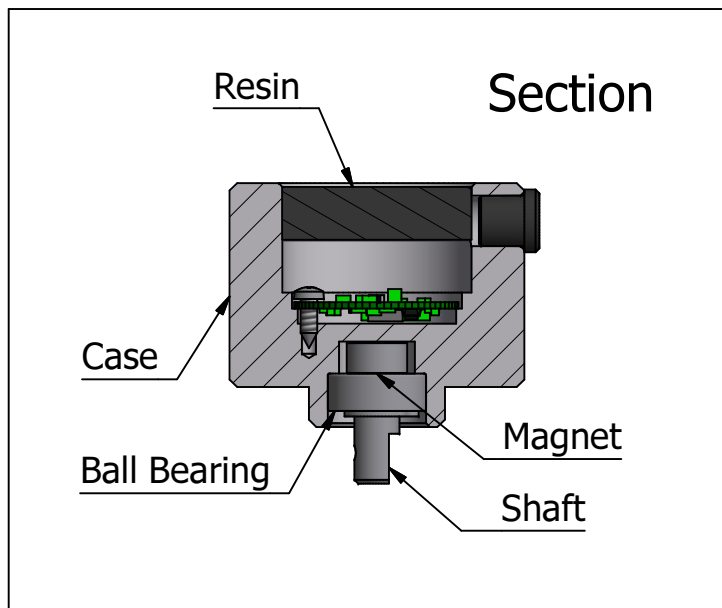
CURRENT SINK (no load): TYP 8 mA ÷ MAX 10 mA

DEGREE OF PROTECTION: IP67

BODY: ANTIOXIDANT TREATMENT ALUMINIUM

SHAFT: STAINLESS STEEL

OPERATING TEMPERATURE	-40°C ÷ 105°C	EN 60068-2-1;EN 60068-2-2 EN 60068-2-30
VIBRATIONS RESISTENCE	Frequency range: 5 to 200 Hz (max 5g) Number of sweep cycles: 20 (1 octave/min) Axes of vibration: x, y, z	EN 60068-2-6
DEGREE OF PROTECTION	IP 67	IEC 60529
EMC COMPATIBILITY	BCI - CLASS "A" - 100mA ; 1÷400 MHz	ISO 11452-4 (2005)
ESD PROTECTION	±8kV contact ; ±15kV air	EN 61000-4-2
SUPPLY VOLTAGE OVERVOLTAGE	+20V	ELEN PDV Rev.3 - 5.7
REVERSE VOLTAGE PROTECTION	-12V	ELEN PDV Rev.3 - 5.3
OVERLOAD PROTECTION	20 mA FOR 5'	ELEN PDV Rev.3 - 5.6
OUTPUT SHORTCIRCUIT PROTECTION	TO VDC (MAX 18V) FOR 5' TO GND FOR 5'	ELEN PDV Rev.3 - 5.4
POWER SUPPLY	MIN 4.5V - MAX 5.5V	ELEN PDV Rev.3 - 5.1



Functional scheme

