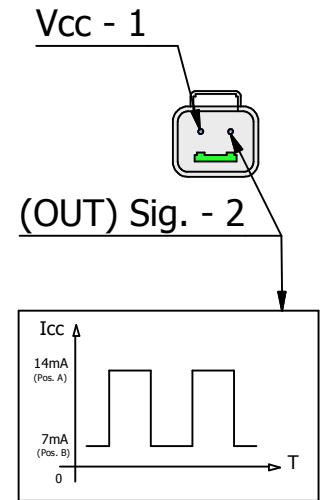
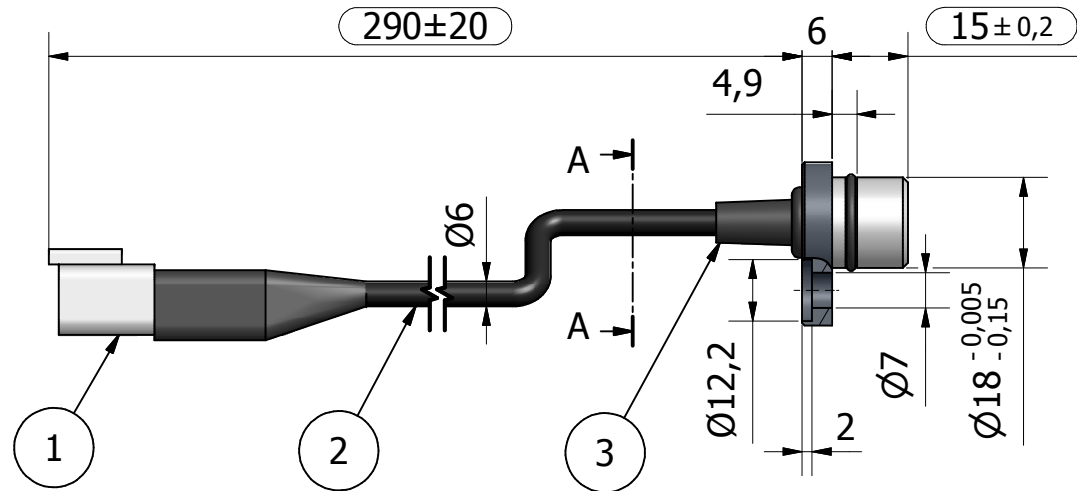
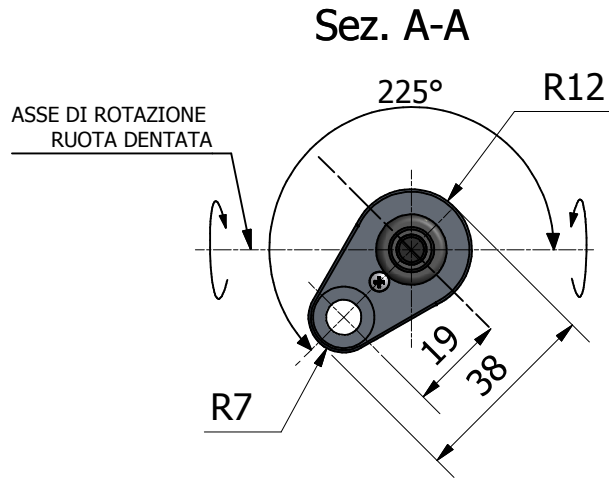
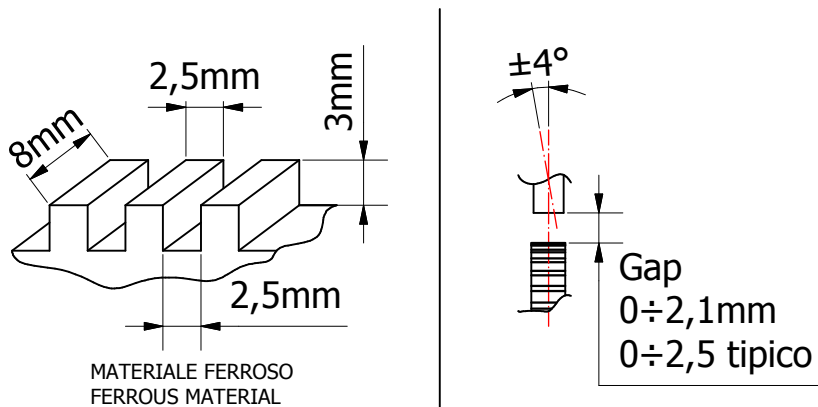


SENSORE GIRI E VELOCITA' A 2 FILI - SPEED/RPM SENSOR WITH ONLY 2 WIRES



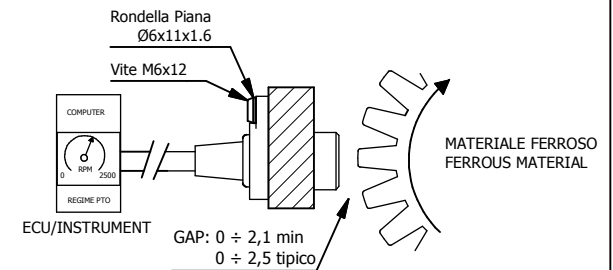
RIF.	DESCRIZIONE	TEMPERATURA DI FUNZ. (°C)
1	DEUTSCH DT04 2Pin CONTACT	-55 / +125
2	CAVO SILICONICO Ø6mm	-40 / +140
3	ELEKTROZUBEHOR COD. 15-679	-30 / +90

DIMENSIONI MINIME DELLA RUOTA E INCLINAZIONE DELL'ASSE DI LETTURA
MINIMUM WHEEL SIZE AND READING AXIS INCLINATION



APPLICAZIONI TIPICHE - SENSORE PER USO AUTOMOTIVE
TYPICAL APPLICATIONS - AUTOMOTIVE SENSOR

SENSORE PER ALBERO A CAMME
CAMSHAFT SENSOR
SENSORE PER RUOTA DENTATA
GEARTOOTH SENSOR
ENCODER LINEARE
LINEAR ENCODER
ENCODER ROTATIVO
ROTARY ENCODER



REV.	DATA	FIRMA	DESCR. ULT. REV.
			ELEN srl Viale Forlanini 71 Garbagnate Milanese (MI)
			DATA: 25/02/2008
			SCALA: 1:1.5
			DIS.: Pasetti F.
			UNITA DI MISURA: mm
			DENOMINAZIONE: SENSORE MAGNETORESISTIVO 225°
			CODICE PRODOTTO: AA.02.0600
			Quote senza indicazione di tolleranza : ISO 2768 - m

CARATTERISTICHE:

SENSORE ZERO SPEED

ALIMENTAZIONE: Min 5 Vcc Max 15 Vcc

CORRENTE IN USCITA:

Stato basso: $5.6 \div 8.4\text{mA}$ (tipico 7mA)

Stato alto: $11.2 \div 16.8\text{mA}$ (tipico 14mA)

CORRENTE ASSORBITA: max $16.8\text{mA}@12\text{V}$

FREQUENZA: 25 kHz

TEMPO DI RISPOSTA: $1\mu\text{s}$

RESISTENZA DI CARICO: $115\ \Omega \pm 30\ \Omega$

RESISTENZA ISOLAMENTO: 10 MOhm (500V)

USCITA PROTETTA DA C.C. CONTINUO

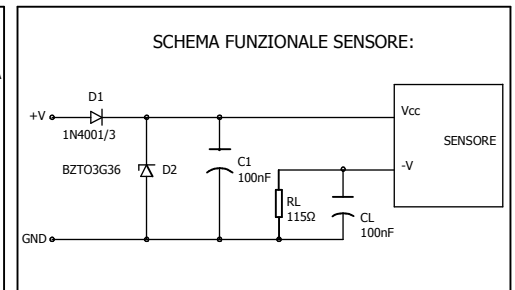
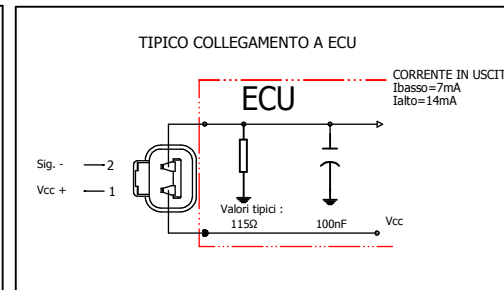
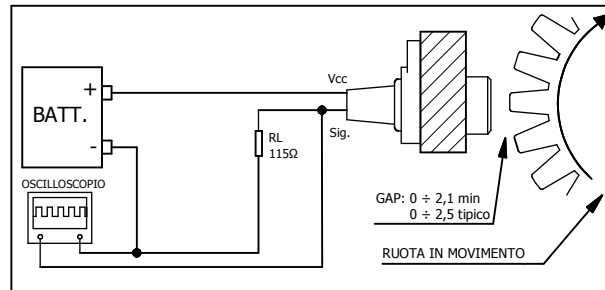
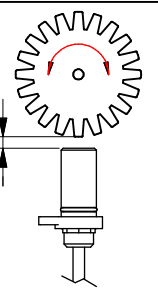
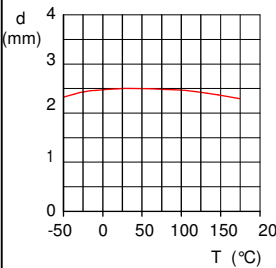
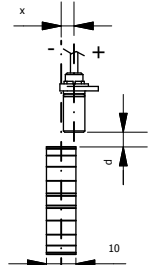
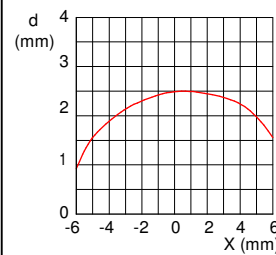
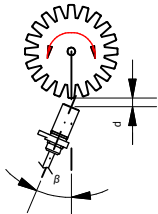
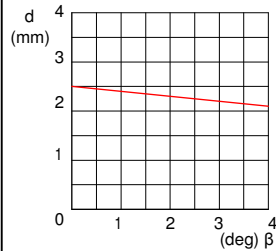
VERSO MASSA

GRADO DI PROTEZIONE: IP67

STRESS DA VIBRAZIONE: $1\text{mm}/100\text{Hz}$ ($\sim 8\text{g}$)

TEMPERATURA DI UTILIZZO: $-40^\circ\text{C} + 85^\circ\text{C}$

MATERIALE CORPO E FLANGIA: ALLUMINIO



TEMPERATURA DI FUNZIONAMENTO:	$-40^\circ\text{C} \div +85^\circ\text{C}$ VALORE RIFERITO AL CASE INSERITO A RIDOSSO DELLA RUOTA	EN 60068-2-1; EN 60068-2-2 EN 60068-2-30; EN 60068-2-14
TEMPERATURA DI STOCCAGGIO:	$-40^\circ\text{C} \div +150^\circ\text{C}$	EN 60068-2-1; EN 60068-2-2 EN 60068-2-30; EN 60068-2-14
TENSIONE DI ALIMENTAZIONE:	$5 \div 15\ \text{Vcc}$	PROCEDURA ELEN
PROTEZIONE DA CORTOCIRCUITO CONTINUO VERSO MASSA:	Si	PROCEDURA ELEN
USCITA LINEARE (tipica):	$7\text{mA} \div 14\text{mA}$	
CORRENTE ASSORBITA:	Max $16.8\text{mA} @ 12\text{V}$	PROCEDURA ELEN
GRADO DI PROTEZIONE:	IP67	IEC 60529
RESISTENZA A VIBRAZIONI:	$1\text{mm} / 100\text{Hz}$ ($\sim 8\text{g}$)	EN 60068-2-6
COMPATIBILITA' EMC:	Si	ISO 11452
RESISTENZA AD AMBIENTI CORROSIVI:	Si	EN 60068-2-11
FREQUENZA :	25kHz	PROCEDURA ELEN
RESISTENZA DI ISOLAMENTO:	10 Mohm (500V)	
TEMPO DI RISPOSTA:	1 microsec	
USCITE PROTETTE PER SCARICHE ELETTROSTATICHE FINO A 2000 V SECONDO MODELLO HBM		RIF. : MIL-STD-883; method 3015.
TEST ESD CONDOTTI IN LINEA CON "IEC 801-2". CONDIZIONI DI TEST: $C=150\text{pF}$, $R=150\Omega$, $V=2\text{kV}$. DISTURBI ELETTROMAGNETICI CON CAMPI FINO A $150\ \text{V/m}$ E $f=1\text{GHz}$ NON HANNO INFLUENZA SULLE PERFORMANCE		RIF. : DIN 40839

NOTE: LA ELEN SI RISERVA DI INSERIRE MIGLIORAMENTI/VARIAZIONI DI PRODOTTO, DANDONE COMUNQUE COMUNICAZIONE AL CLIENTE.
LA ELEN NON SI ASSUME ALCUNA RESPONSABILITA' SULL'USO NON APPROPRIATO DEL PRODOTTO O PER APPLICAZIONI FUORI SPECIFICA.

CHARACTERISTICS:

ZERO SPEED SENSOR

POWER SUPPLY: Min 5 Vcc Max 15 Vcc

OUTPUT CURRENT:

Signal low: 5.6 ÷ 8.4mA (typical 7mA)

signal high: 11.2 ÷ 16.8mA (typical 14mA)

CURRENT ABSORBED: max 16.8mA@12V

FREQUENCY: 25 kHz

RISE AND FALL TIME: 1µs

RESISTANCE: 115 Ohm ± 30 Ohm

INSULATION RESISTANCE: 10 MOhm (500V)

OUTPUT PROTECTED FROM CONTINUOUS

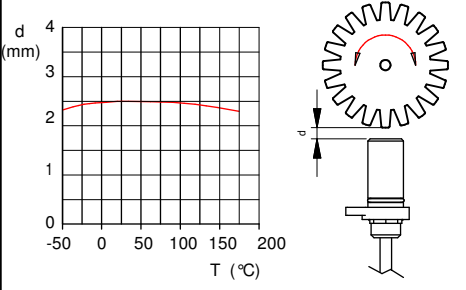
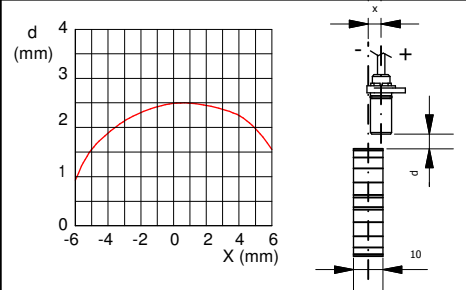
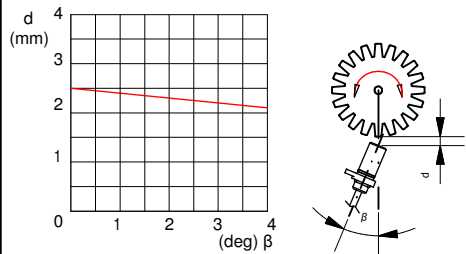
SHORT CIRCUIT TO GROUND

DEGREE OF PROTECTION: IP67

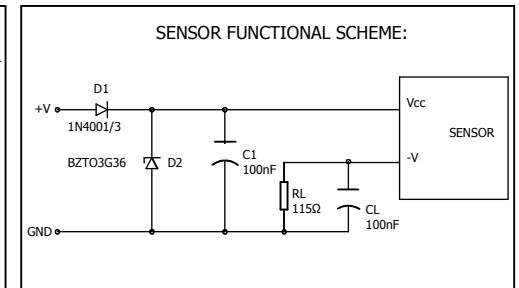
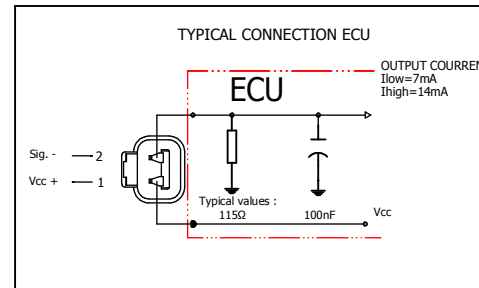
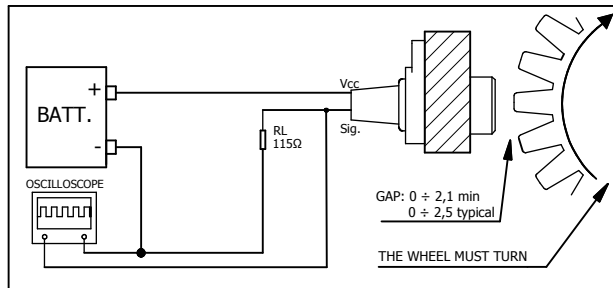
STRESSES: 1mm/100Hz (~8g)

OPERATING TEMPERATURE: -40°C +85°C

BODY MATERIALS AND FLANGE: ALUMINUM



OPERATING TEMPERATURE:	-40°C ÷ +85°C VALUE REFERRED TO A CASE MOUNTED BEHIND THE WHEEL	EN 60068-2-1; EN 60068-2-2 EN 60068-2-30; EN 60068-2-14
STORAGE TEMPERATURE:	-40°C ÷ +150°C	EN 60068-2-1; EN 60068-2-2 EN 60068-2-30; EN 60068-2-14
POWER SUPPLY:	5 ÷ 15 Vcc	ELEN PROCEDURE
PROTECTED FROM CONTINUOUS SHORT CIRCUIT TO GROUND:	Si	ELEN PROCEDURE
OUTPUT LINEAR (typical):	7mA ÷ 14mA	
CURRENT ABSORBED:	Max 16.8mA @ 12V	ELEN PROCEDURE
DEGREE OF PROTECTION:	IP67	IEC 60529
VIBRATIONS RESISTANCE:	1mm / 100Hz (~8g)	EN 60068-2-6
EMC COMPATIBILITY:	Si	ISO 11452
RESISTANCE TO CORROSIVE ENVIRONMENTS:	Si	EN 60068-2-11
FREQUENCY:	25kHz	ELEN PROCEDURE
INSULATION RESISTANCE:	10 Mohm (500V)	
RESPONSE TIME:	1 microsec	
OUTPUT PINS ARE DESIGNED FOR ELECTROSTATIC SENSITIVITY FOR MORE THAN 2000V ACCORDING TO Human Body Model (HBM)		RIF. : MIL-STD-883; method 3015.
ESD TESTS CONDUCTED IN LINE WITH "IEC 801-2". TEST CONDITIONS: C=150pF, R=150Ω. V=2kV. ELECTROMAGNETIC DISTURBANCES WITH FIELDS UP TO 150 V/m AND f=1GHz HAVE NO INFLUENCE ON PERFORMANCE		RIF. : DIN 40839



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