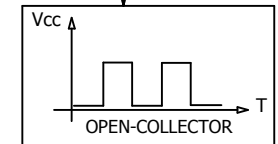
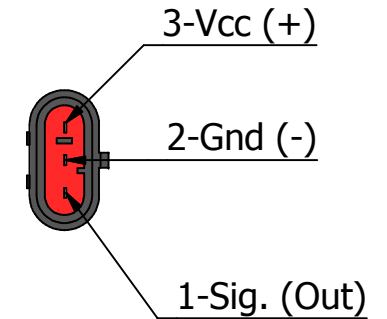
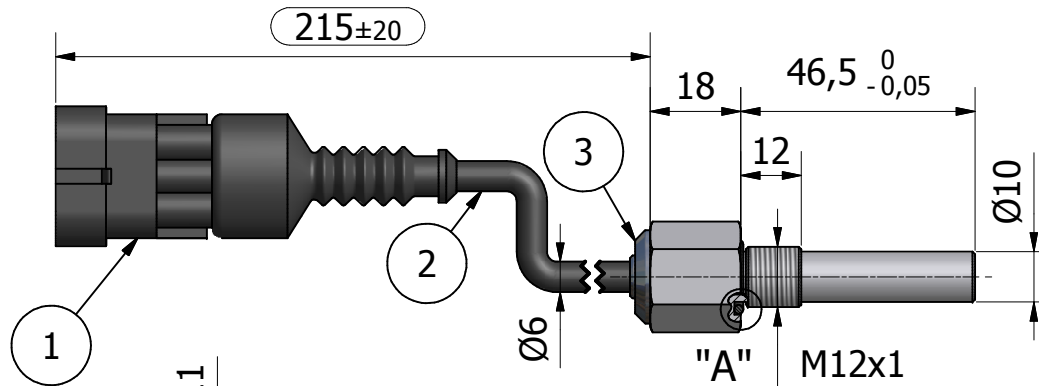
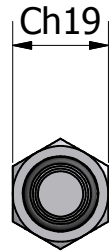
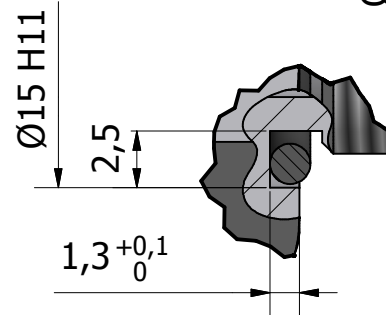


SENSORE EFFETTO HALL PER LA MISURA DI GIRI/VELOCITA' IN RUOTE FONICHE O DENTATE OPEN COLLECTOR (NPN)
 HALL EFFECT SENSOR FOR MEASUREMENT OF SPEED/RPM FROM PHONIC WHEEL OR GEAR WHEEL OPEN COLLECTOR (NPN)



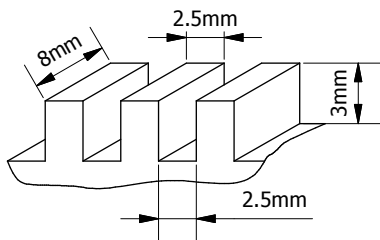
RESISTENZA DI PULL-UP ESTERNA
EXTERNAL PULL-UP RESISTOR

RIF.	DESCRIZIONE	TEMPERATURA DI FUNZ. (°C)
1	TYCO SUPERSEAL 1.5series 3Pin CONTACT	-40 / +125
2	CAVO HT105° Ø6mm	-40 / +105
3	TAPPO PORTA LED NYLON 6,6	-30 / +130

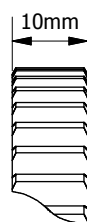
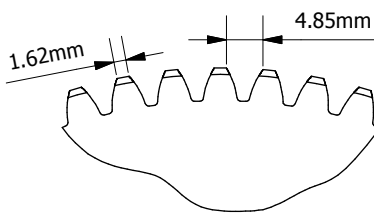
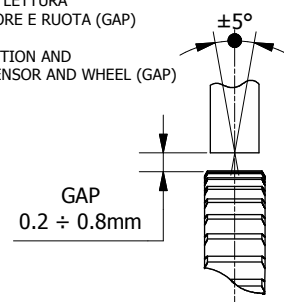


PARTICOLARE "A"
SCALA 3:1

DIMENSIONI MINIME DELLA RUOTA FERROMAGNETICA
MINIMUM FERROMAGNETIC WHEEL SIZE



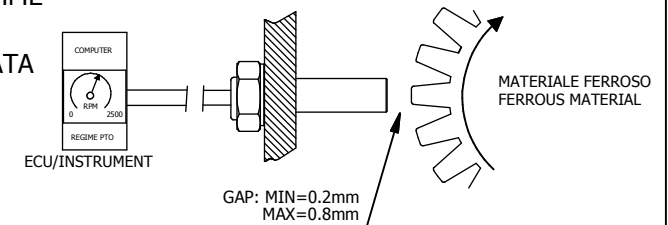
INCLINAZIONE ASSE DI LETTURA
E DISTANZA TRA SENSORE E RUOTA (GAP)
READING AXIS INCLINATION AND
DISTANCE BETWEEN SENSOR AND WHEEL (GAP)



CARATTERISTICHE RUOTA DI TEST ELEN
TEST WHEEL ELEN CHARACTERISTICS
z=66
m=2
Øp=132
MATERIALE/MATERIAL= ACCIAIO/STEEL C45

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: 26/01/11
			SCALA: 1:1
			DIS.: Fabio S.
			UNITA DI MISURA: mm
			DENOMINAZIONE: HALL EFFECT SENSOR M12x1 L=46.5mm Tyco
			CODICE PRODOTTO: AA.02.0024-1 1/3
			Quote senza indicazione di tolleranza : ISO 2768 - m

CARATTERISTICHE:

SENSORE ZERO SPEED

ALIMENTAZIONE: Min 4.5 Vcc Max 30 Vcc

CORRENTE IN USCITA: Max 25 mA

VELOCITA' MAX DI LETTURA: 15 kHz

PROTEZIONE DA INVERSIONE DI POLARITA'

USCITA SEGNALE (FREQ.): OPEN COLLECTOR (NPN)

GRADO DI PROTEZIONE: IP67

STRESS DA VIBRAZIONE: 1mm/80Hz (~4g)

TEMPERATURA DI UTILIZZO: -40°C +150°C

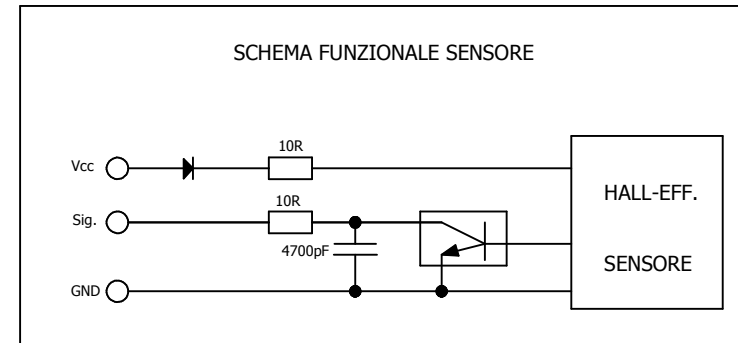
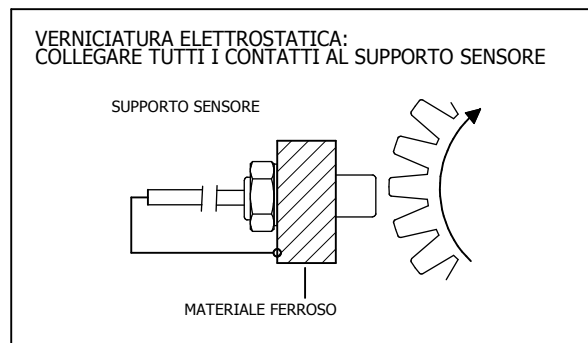
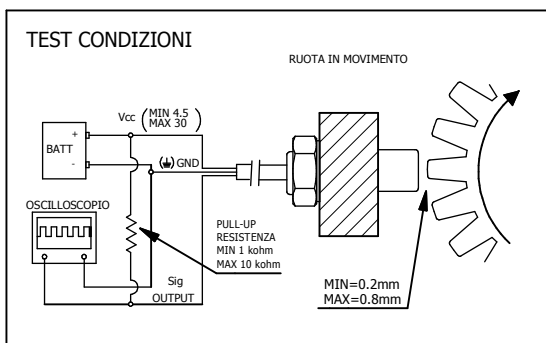
FORZA DI SERRAGGIO: 25 Nm

MATERIALE CORPO: ACCIAIO INOX AISI 304

RESISTENZA AD ALTE PRESSIONI:

P costante=400bar; picco max=450bar

TEMPERATURA DI FUNZIONAMENTO:	-40°C ÷ +150°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:	-65°C ÷ + 150°C	EN 60068-2-1;EN 60068-2-2 EN 60068-2-30;EN 60068-2-14
RESISTENZA A VIBRAZIONI:	1mm / 80Hz (~4g)	EN 60068-2-6
GRADO DI PROTEZIONE:	IP 67	IEC 60529
EMC:	B.C.I. - CLASS "C" - 100mA , 1÷400MHz	ISO 11452-4 (2005)
PROTEZIONE DA INVERSIONE DI POLARITA':	-30Vcc PER 1h	PROCEDURA ELEN
PROTEZIONE DA SOVRACCARICO:	30mA PER 5'	PROCEDURA ELEN
PROTEZIONE DA SOVRATENSIONE:	36V PER 5'	PROCEDURA ELEN
PROTEZIONE DA CORTOCIRCUITO:	VERSO MASSA PER 5' VERSO Vcc PER 5'	PROCEDURA ELEN
PROTEZIONE SUI TRANSITORI DI TENSIONE IN USCITA:	V_{BR} : Min. 31,35 Max.34,65	ISO 7637
TENSIONE DI ALIMENTAZIONE:	Min. 4,5 Vcc Max. 30 Vcc	PROCEDURA ELEN
USCITE PROTETTE PER SCARICHE ELETTROSTATICHE FINO A 2000 V SECONDO MODELLO HBM		RIF. : MIL-STD-883; method 3015.



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 4.5 Vdc Max 30 Vdc

OUTPUT CURRENT: Max 25 mA

MAXIMUM TARGET SPEED: 15 kHz

PROTECTED BY POLARITY INVERSION

OUTPUT SIGNAL (FREQ.): OPEN COLLECTOR (NPN)

DEGREE OF PROTECTION: IP67

STRESSES: 1mm/80Hz (~4g)

OPERATING TEMPERATURE: -40°C +150°C

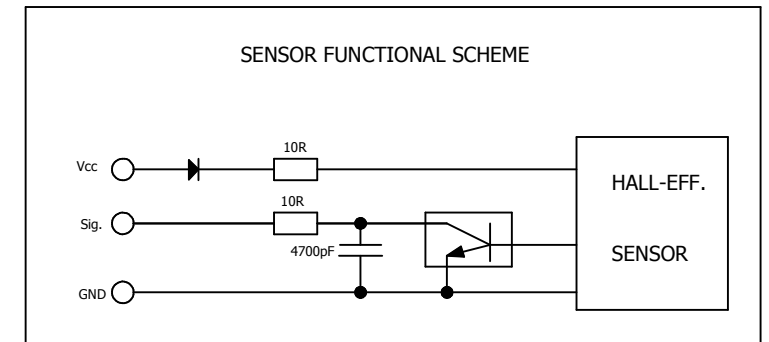
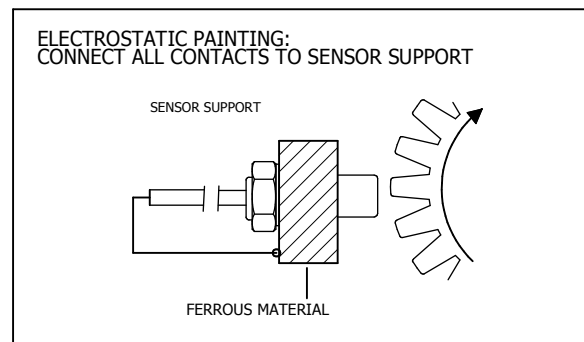
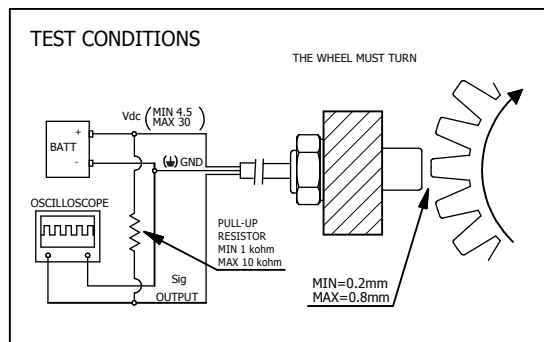
TIGHTENING TORQUE: 25 Nm

BODY MATERIALS: STAINLESS STEEL AISI 304

HIGH PRESSURE PROOF:

P continuous=400bar; max peak=450bar

OPERATING TEMPERATURE:	-40°C ÷ +150°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:	-65°C ÷ +150°C	EN 60068-2-1;EN 60068-2-2 EN 60068-2-30;EN 60068-2-14
VIBRATIONS RESISTANCE:	1mm / 80Hz (~4g)	EN 60068-2-6
DEGREE OF PROTECTION:	IP 67	IEC 60529
EMC:	B.C.I. - CLASS "C" - 100mA , 1÷400MHz	ISO 11452-4 (2005)
REVERSE POLARITY PROTECTION:	-30Vdc PER 1h	ELEN PROCEDURE
OVERLOAD PROTECTION:	30mA PER 5'	ELEN PROCEDURE
OVERVOLTAGE PROTECTION:	36V PER 5'	ELEN PROCEDURE
SHORTCIRCUIT PROTECTION:	TO GROUND FOR 5' TO Vcc FOR 5'	ELEN PROCEDURE
OUTPUT TRANSIENT VOLTAGE PROTECTION:	V _{BR} : Min. 31,35 Max.34,65	ISO 7637
POWER SUPPLY:	Min. 4,5 Vdc Max. 30 Vdc	ELEN PROCEDURE
OUTPUT PINS ARE PROTECTED AGAINST 2000V ELECTROSTATIC DISCHARGE ACCORDING TO HBM		RIF. : MIL-STD-883; method 3015.



NOTES: ELEN SRL RESERVES THE RIGHT TO MAKE MODIFICATIONS/ENHANCEMENTS TO ITS PRODUCTS, GIVING NOTICE TO THE CUSTOMERS.
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