

CATALOG LISTING

3GC401

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ISSUE 3

REVISIONS

A

PR-23276

KAG

22 JAN 98

CO

96148

B

GRT

3 APR 00

CHECK

CHECK

WJC

21 NOV 97

DRAWN

PTC/CAD

MICRO SWITCH

a Honeywell Division

FED. MFG. CODE 91929

1.5C GEARTOOTH SENSOR

3GC401

CATALOG LISTING

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GROUND (-)

OUTPUT (O)

POWER (+)

19,00±0,40

10,00

9,60±0,13

DIRECTION OF TARGET ROTATION

2X R0,50

Ø14,00±0,10

2,97

1,50±0,10

1,00±0,10

SCALE 3:1

17,63

11,51

0,84±0,10

5,50

V+

V-

VOUT

R1

100Ω

TP2

SP1

26V

C1

3300 pF

R2

22Ω

TP5

C2

3300 pF

U1

THIRD ANGLE PROJECTION

SCALE 3 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

NO PLACE

(0)

±1

ONE PLACE

(0.0)

±0.4

TWO PLACE

(0.00)

±0.15

ANGLES

±

WEIGHT

CAUTION

ELECTROSTATIC SENSITIVE DEVICES

DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION

ESD SENSITIVITY: CLASS 3

PRELIMINARY OPERATING SPECIFICATIONS

PARAMETER		CONDITION	DESIGN			UNITS
			MIN.	NOM.	MAX.	
AG	AIR GAP	1	.30	.70	1.10	mm
AGm	AIR GAP MAX.	5			1.70	mm
Ta	TEMPERATURE		-40		130	°C
St	TARGET SPEED		0		4000	RPM
OP	OPERATE	2	-8.9	-5.2	-1.5	DEG.
RP	RELEASE	2	2.4	6.1	9.8	DEG.
PW	PULSE WIDTH	2	37.6	45.0	52.4	DEG.
Vs	SUPPLY VOLTAGE		6.0		16.0	VDC
Vmax	SUPPLY VOLTAGE MAX.				24.0	VDC
I	SUPPLY CURRENT				20.0	mA
Is	SINK CURRENT				10.0	mA
Tr	RISE TIME (R1=1KΩ)				18	uSec
Tf	FALL TIME				1	uSec
Vce(sat)	VOLTAGE COLLECTOR EMITTER (SATURATED)				600	mV
Iceo	LEAKAGE CURRENT (OFF)				20	uA
OPt	OPERATE OVER TEMP.	3	-11.4	-5.2	1.0	DEG.
RPt	RELEASE OVER TEMP.	3	0.1	6.1	12.3	DEG.
PWt	PULSE WIDTH OVER TEMP.	3	32.6	45.0	57.4	DEG.
DELTA OPs	DELTA OPERATE OVER SPEED	4	0.0		0.9	DEG.
DELTA RPs	DELTA RELEASE OVER SPEED	4	0.0		1.5	DEG.

NOTES

1 AIR GAP ASSUMES 0.75 mm OVERPACKAGE OF MODULE

2 80°C, 0.7 mm AIR GAP, 300 RPM, 12V

3 -30 TO 120°C, 0.7 mm AIR GAP, 300 RPM, 12V

4 80°C, 0.7 mm AIR GAP, 300 TO 3000 RPM, 12V

5 TWO PULSES PER ONE ROTATION AT 80°C, 1.7 mm AIR GAP, 300 RPM

TARGET FEATURES

18,2 mm

56.3°

TARGET Ø=37,0 mm (0,323mm/DEG)

2 mm

VSUPPLY

SENSOR OUTPUT

RP

OP

PW

TIME

ANSI Y14.5M-1982 APPLIES

Mouser Electronics

Authorized Distributor

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