

MECHANICAL:

TRAVEL (NOMINAL): .06[1.5]
LIFE (MINIMUM): 1,000,000 CYCLES
OPERATING FORCE (NOMINAL): 375 GRAMS[3.7 N]

ENVIRONMENTAL AND PHYSICAL:

ACTUATOR INGRESS PROTECTION: IP67
SHOCK: 100 G
OPERATING TEMPERATURE: -40°F TO +221°F[-40°C TO +105°C]
CONTACT FINISH: GOLD; 50 MICRINCHES THK

ELECTRICAL (SWITCH ONLY):

DIELECTRIC STRENGTH: 1000 VAC
INSULATION RESISTANCE: 1 G OHM
CONTACT RESISTANCE (INITIAL): 50 MILLIOHMS
CURRENT RATING:
 @ 32 VAC RESISTIVE: 400 mA
 @ 50 VDC RESISTIVE: 100 mA
 @ 125 VAC RESISTIVE: 125 mA
LIFE (MINIMUM): 1,000,000 CYCLES

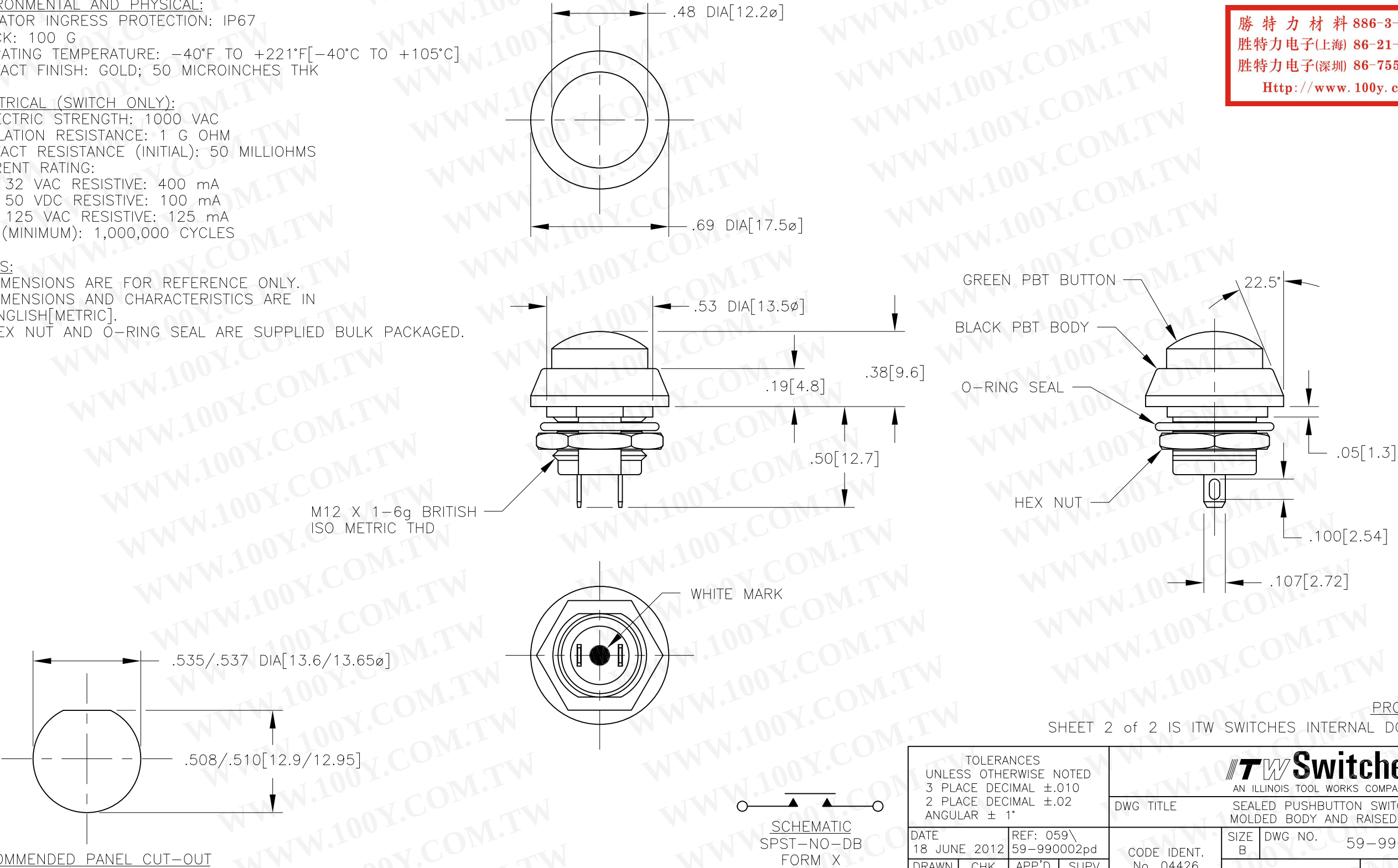
NOTES:

1. DIMENSIONS ARE FOR REFERENCE ONLY.
2. DIMENSIONS AND CHARACTERISTICS ARE IN ENGLISH[METRIC].
3. HEX NUT AND O-RING SEAL ARE SUPPLIED BULK PACKAGED.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	DOCUMENTATION REL. E.C.N. 28479	18 JUN 2012	<i>JR</i>

勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



PRODUCT DRAWING
SHEET 2 of 2 IS ITW SWITCHES INTERNAL DOCUMENTATION.

TOLERANCES UNLESS OTHERWISE NOTED 3 PLACE DECIMAL ±.010 2 PLACE DECIMAL ±.02 ANGULAR ± 1°				//TW Switches AN ILLINOIS TOOL WORKS COMPANY				
				DWG TITLE SEALED PUSHBUTTON SWITCH WITH MOLDED BODY AND RAISED BUTTON				
DATE 18 JUNE 2012		REF: 059\ 59-990002pd		CODE IDENT. No. 04426		SIZE B	DWG NO. 59-990002	REV A
DRAWN <i>JR</i>	CHK <i>BC</i>	APP'D <i>BB</i>	SUPV <i>BB</i>			SCALE 2 : 1		SHEET 1 OF 2

MINIATURE METAL PANEL SEALED PUSHBUTTON

This rugged panel sealed pushbutton is made of a special high creep strength non-spark zinc alloy suitable for use in mining or other potentially explosive atmospheres where dust and moisture are problematic.

Series 59



ACTUAL SIZE

APPLICATIONS

- Communications
- Instrumentation
- Data processing
- Process controls
- Transportation/ Material handling

KEY FEATURES:

- Panel sealed to IP67
- Momentary action
- Non-spark material
- 500,000 life cycles @ max power
- Impact resistant
- Gold contacts
- Wide temperature range: -55°C to +125°C

ORDERING INFORMATION:

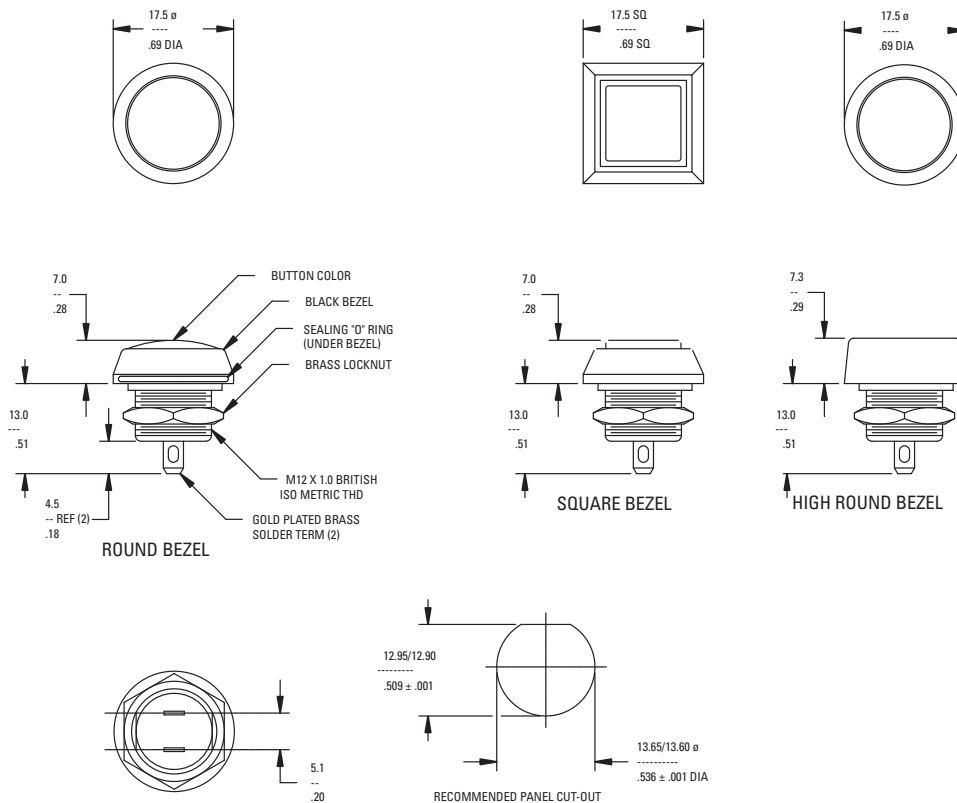
Part Number	Bezel Style	Button Color*
59-111	Round	Black
59-112	Round	Red
59-113	Round	Green
59-211	Square	Black
59-212	Square	Red
59-213	Square	Green
59-311	High Round	Black
59-312	High Round	Red
59-313	High Round	Green

*Consult factory for additional colors.

STANDARDS / AGENCY / RATINGS:



PRODUCT DRAWINGS



PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 59 mounts easily into panels of minimum 1.5mm (.060 in.) and maximum 3mm (.118 in.) thickness. Front panel sealing to IP67 is achieved by a sealing "O" ring fitted into a premachined groove on the body of the switch before it is inserted into the panel hole cut-out. It is held onto the panel by means of a brass hex nut tightened down by a 14mm spanner, to a torque of between 1.5Nm to 3.0Nm to achieve the correct sealing pressure. A "D" flat is provided to prevent rotation.

MECHANICAL / ELECTRICAL CHARACTERISTICS:

Travel (nom):
2.3mm (.090 in.)

Life (max):
1,000,000 cycles

Operating force (nom):
3N / 306 grams

Contact bounce (nom):
1 millisecond

Panel thickness (max):
3mm (.118 in.)

Dielectric strength:
1000 VAC

Insulation resistance:
1 GΩ

Contact resistance (initial):
50 mΩ (Max)

Current rating (typical):
400mA at 32 VAC resistive
100mA at 50 VDC resistive
125mA at 125 VAC resistive

Shock:
100G

Operating temp range:
-55°C to +125°C
(-67°F to +257°F)

Body material:
zinc alloy, black

Button material:
PBT thermoplastic

Contacts:
gold plated palladium nickel

Terminals:
gold plated brass