

M104TL286-72 SERIES

DRAWING
NUMBERISSUE
9

REVISIONS

A

CO

39770

17 APR 78

B

CO

44967

C J H

NOV 78

C

CO-52278

13 OCT 82

D

CO52324

18 OCT 82

E

CO53999

3 J A P

OCT 83

E

PR-11653

J A P

OCT 83

F

CO56074

G J W

26 NOV 84

G

CO57478

T A D

15 JUL 85

H

0010955

TCC/AP

2 FEB 05

FO-52851-A

DRAWN

T M M

17 APR 78

CHECK

C E B

25 APR 78

CHECK

REPLACES

RELEASE NO. ETS

CHECK

DF K

22 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

25 APR 78

CHECK

DF K

MICRO SWITCH

FREEPORT ILLINOIS, U.S.A.
A DIVISION OF HONEYWELL

FED. MFG. CODE 91929

SWITCH-TOGGLE

CATALOG LISTING
104TL286-72 SERIESCATALOG
LISTING
△AVAILABLE
LOCKING
COMBINATIONS
FOR CONFIGURATION
SEE LETTERING
DETAILSSTYLE
NUMBER

CURRENT CAPACITY (AMPS)

RESISTIVE DC VOLTS			LOAD AC VOLTS		LAMP LOAD		INDUCTIVE LOAD	
28	125	250	125	250	28 VDC	125 VAC	28 VDC	125 VAC
7.5	.75	.5	7.5	6	4	2	7.5	7.5

104TL286-72

E,L,N

.076±.008 WIDE KEYWAY

.42 DIA

.090 APPROX PULLOUT
TO CHANGE POSITION34°±8°
TOTAL TRAVEL

17°±4°

SEE LOCKING DETAILS FOR
DESCRIPTION ("E" LOCKING
INSERT SHOWN)SEALED TO PREVENT
ENTRANCE OF LIQUIDS
OR DUST15/32-32 UNS-2 THREAD TO
WITHIN .060 OF SHOULDER

1.05

.47

.427 9

.24

1.47

1.32

.38

.38

.38

1.64

.38

.38

.38

.38

TERMINALS ACCEPT PIN
M39029/1-101SEALED CONSTRUCTION
(RED SEAL)

SCALE FULL

DO NOT SCALE PRINT

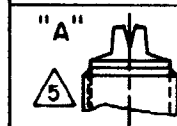
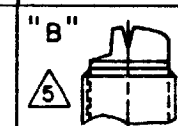
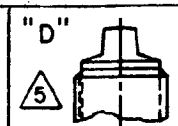
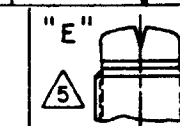
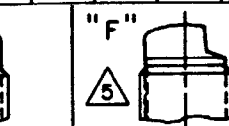
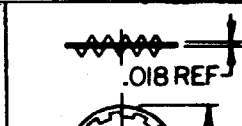
UNLESS OTHERWISE
NOTED

DIMENSIONS ARE IN INCHES

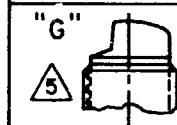
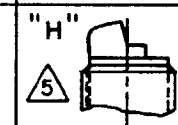
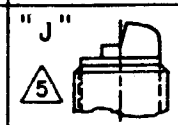
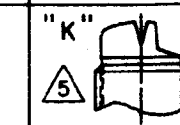
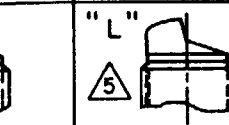
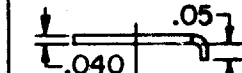
TOLERANCES ARE:

ONE PLACE	(.01)	INCH	.030
TWO PLACE	(.001)	INCH	.015
THREE PLACE	(.0001)	INCH	.005
ANGLES			

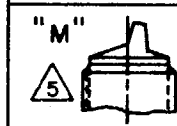
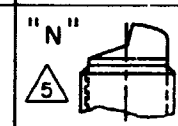
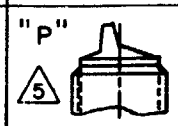
WEIGHT .240 LB MAX

"A"
LOCKED IN
THREE POSITIONS"B"
LOCKED IN
CENTER AND
EXTREME POSITION
(KEYWAY SIDE)"D"
LOCKED OUT
OF CENTER
POSITION"E"
LOCKED IN
CENTER POSITION"F"
LOCKED IN
EXTREME POSITION
(OPPOSITE KEYWAY)

LOCKWASHER

"G"
LOCKED IN
EXTREME POSITION
(KEYWAY SIDE)"H"
LOCKED OUT OF
CENTER AND
EXTREME POSITION
(KEYWAY SIDE)"J"
LOCKED OUT OF
CENTER AND
EXTREME POSITION
(OPPOSITE KEYWAY)"K"
LOCKED IN
CENTER AND
EXTREME POSITION
(OPPOSITE KEYWAY)"L"
LOCKED OUT OF
EXTREME POSITION
(KEYWAY SIDE)

LOCKING RING

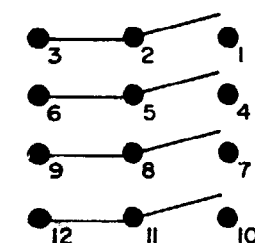
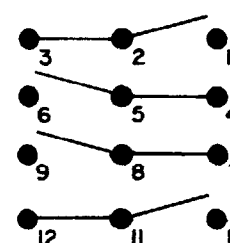
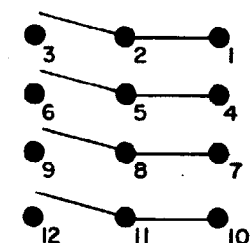
"M"
LOCKED OUT OF
AND INTO
EXTREME POSITION
(OPPOSITE KEYWAY)"N"
LOCKED OUT OF
EXTREME POSITION
(OPPOSITE KEYWAY)"P"
LOCKED OUT OF
AND INTO
EXTREME POSITION
(KEYWAY SIDE)

CIRCUIT MADE WITH TOGGLE LEVER IN

KEYWAY SIDE

CENTER

OPPOSITE KEYWAY



MOMENTARY POSITION

MAINTAINED POSITION

MOMENTARY POSITION



HEX NUT (2)

NOTES

- 1 - SWITCHES ARE CAPABLE OF WITHSTANDING A TEMPERATURE OF 160°F CONTINUOUSLY AT FULL RATED LOAD
- 2 - CIRCUIT DESIGNATION AND MICRO SWITCH CATALOG LISTING STAMPED ON SIDE OF SWITCH
- 3 FURNISHED UNASSEMBLED
- 4 THE SEALING GROMMET SHALL SEAL ON A SMOOTH WIRE INSULATION OF .040 TO .083 DIAMETER (16-20 GAGE)
- 5 KEYWAY SHOWN ON LEFT
- 6 SUFFIX LETTER MUST BE ADDED FOR DESIRED TYPE OF TOGGLE LOCKING. SEE CHART FOR AVAILABLE LOCKING COMBINATIONS
- 7 - UNUSED TERMINAL HOLES MAY BE SEALED WITH PLUGS M83723/28-20
- 8 - TOGGLE AND BUSHING - COVER ARE NICKEL PLATED
- 9 FROM BOTTOM OF KEYWAY TO MAJOR DIA. OF 15/32 THREAD