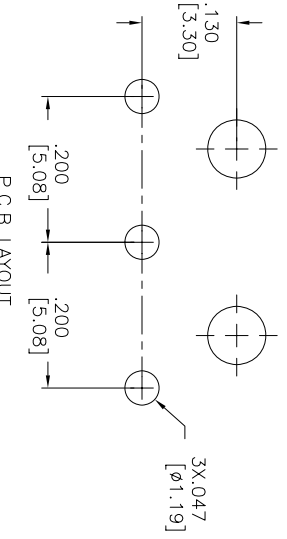
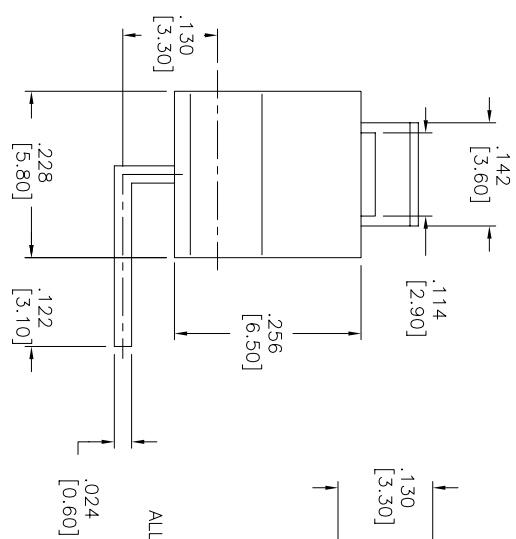
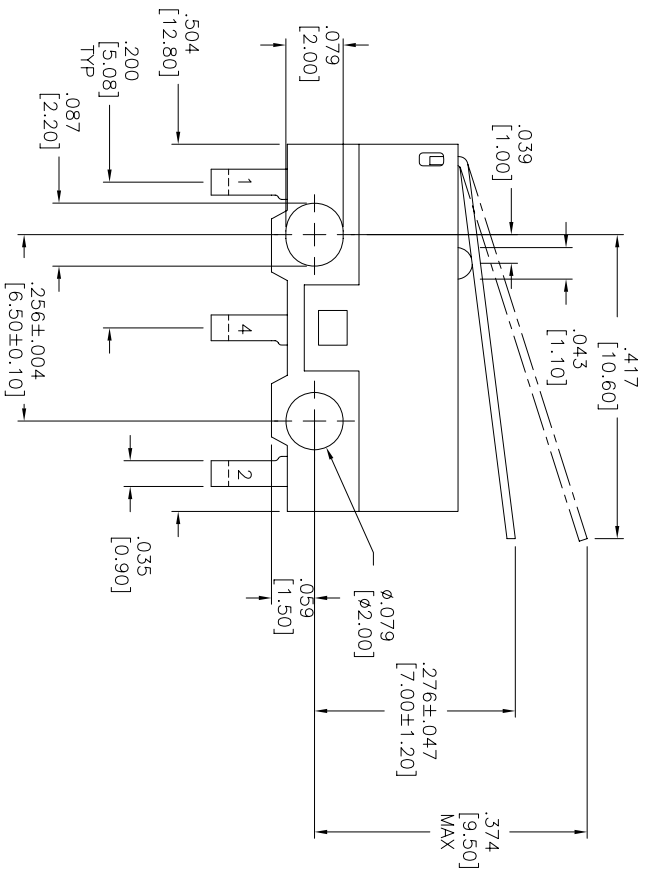


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UNLESS OTHERWISE SPECIFIED
P.C.TOLERANCES ARE ±.002 [0.05]

MDB1***01*03C
A=NORMALLY
CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER

RATING

01=0.1A 125VAC

02=0.3A 125VAC

03=0.5A 125VAC

04=1A 125VAC

05=3A 125VAC

OPERATING FORCE

A=0.45N

B=1.0N

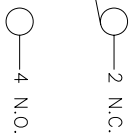
C=1.5N

D=2.0N

E=2.5N

F=3.0N

SCHEMATIC

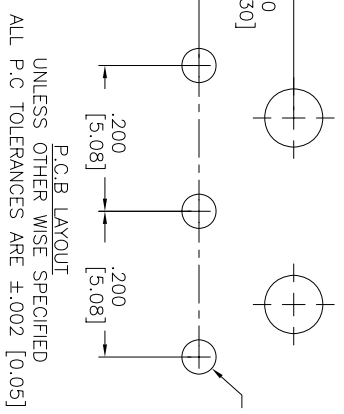
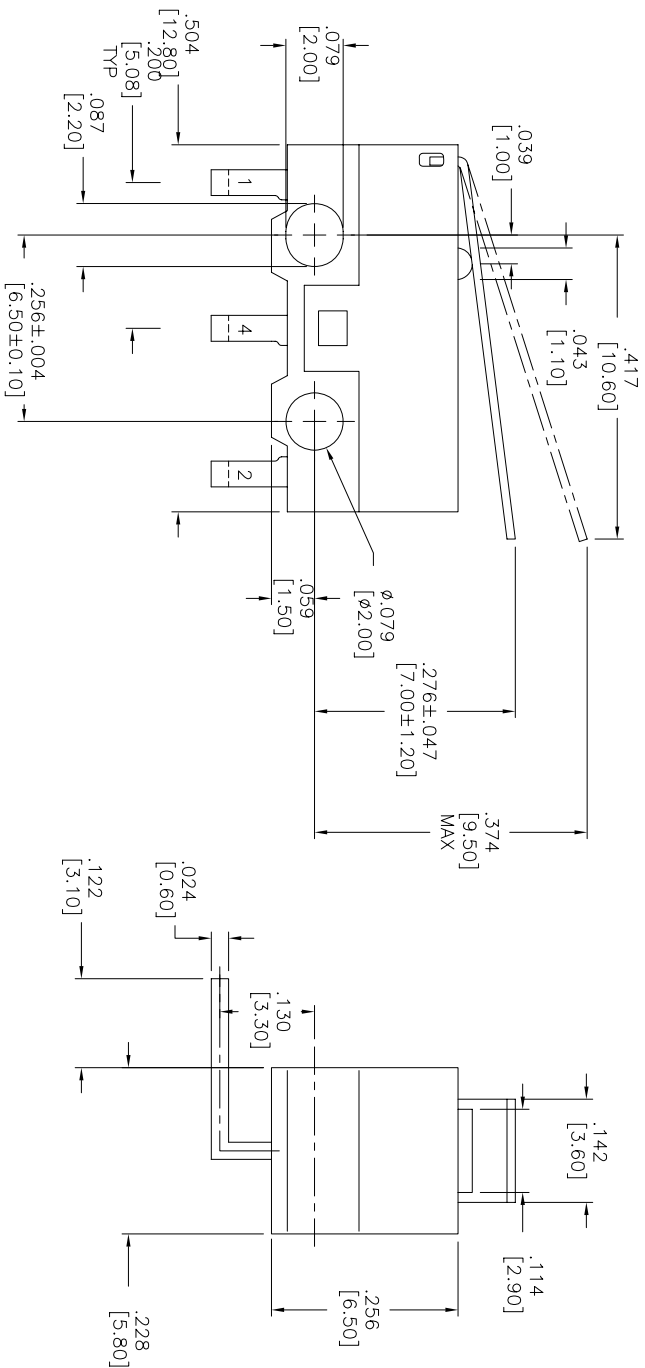


DATE	SYM	REVISION RECORD	DWN.	CK.
8/06	B	ECO # 584	CD	PD

Q.A. INSPECT		63 Neck Rd.		P.D.N. CJD	
DESIGNATES CRITICAL		Haverhill, MA 01835		Bf. PJD	
TOLERANCES		F01978-372-5534		THIRD ANGLE PROJECTION	
(EXCEPT AS NOTED)					
.XX=±.02[0.05]					
.XXX=±.008[0.20]					
.XXXX=±.0008[0.02]					
ANGLE = ±0.5°					
DO NOT SCALE					
DATE		DRAWING NO.		REV	
9/21/05		MDB1***01*03C		B	

DESCRIPTION: MICRO SWITCH
SPECIFICATIONS:
MECHANICAL LIFE: MIN 1MIO ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm
MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACTS: SILVER PLATED
CONTACT SPRING: BERYLLIUM COPPER

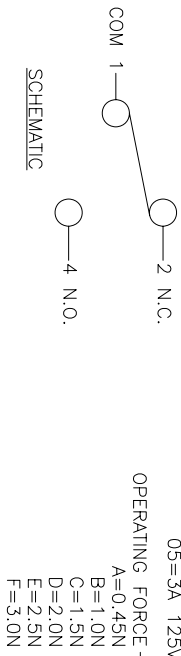
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MDB1***01*03D

RATING
01=0.1A 125VAC
02=0.3A 125VAC
03=0.5A 125VAC
04=1A 125VAC
05=3A 125VAC

A=NORMALLY CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER



DESCRIPTION: MICRO SWITCH

SPECIFICATIONS:

MECHANICAL LIFE: MIN 1M00 ACTUATIONS

ELECTRICAL LIFE: MIN 100,000 ACTUATIONS

PRETRAVEL: ≤ 0.5mm

OVERTRAVEL: MIN. 0.2mm

MOVEMENT DIFFERENTIAL: ≤ 0.2mm

OPERATING POSITION: 5.5 ± 0.3mm

MATERIALS:

SOCKET: PBT UL94V-0

CAP: PBT UL94V-0

ACTUATOR: PBT UL94V-0

TERMINALS: BRASS, SILVER PLATED

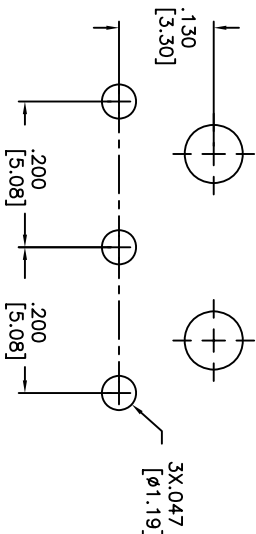
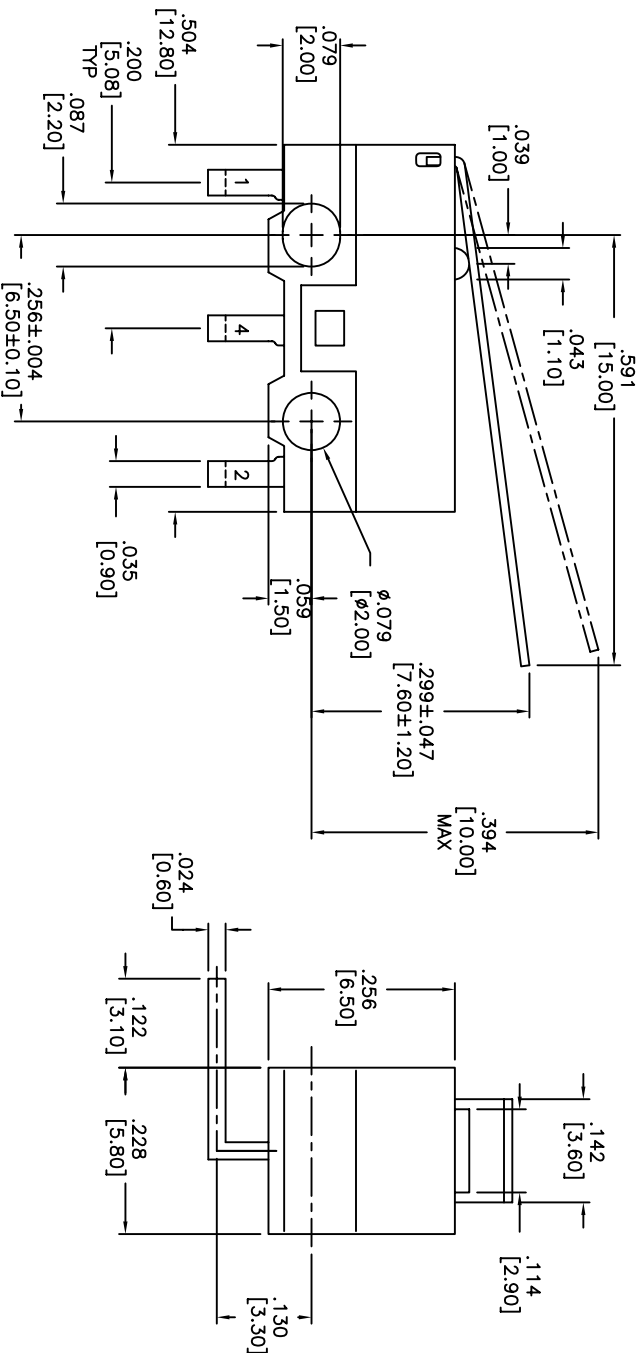
CONTACTS: NICKLE SILVER

CONTACT SPRING: BERYLLIUM COPPER

Q.A. INSPECT		63 Neck Rd. Haverhill, MA 01835 Tel: 978-372-5534 Fax: 978-372-5534		DRN. CJD
DESIGNATES CRITICAL DIMENSION		APPEM		GRK. PJD
TOLERANCES (EXCEPT AS NOTED)		INCH	SHEET 1 OF 1	SIZE B
.XX=±.02[0.05]		SCALE	6:1	THIRD ANGLE PROJECTION
.XXX=±.008[0.20]		TITLE MICRO SWITCH		
.XXXX=±.0008[0.02]		DATE 7/21/06		
ANGLE = ±0.5°		DRAWING NO. MDB1***01*03D		
DO NOT SCALE		REV A		
DATE		REV		

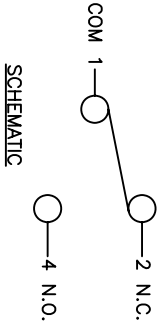
DATE	SYM	REVISION RECORD	DWN.	CK.

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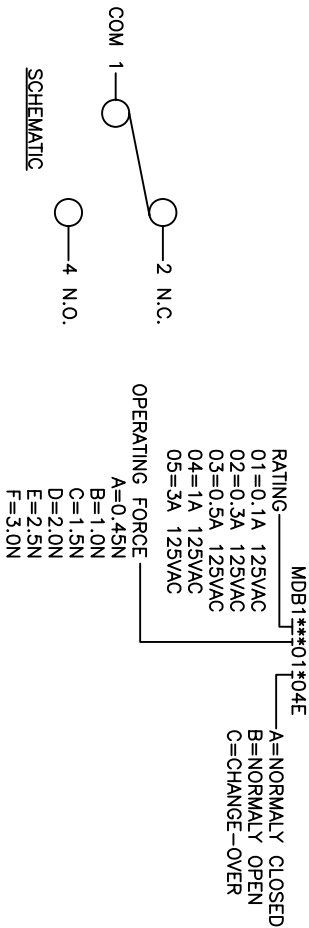
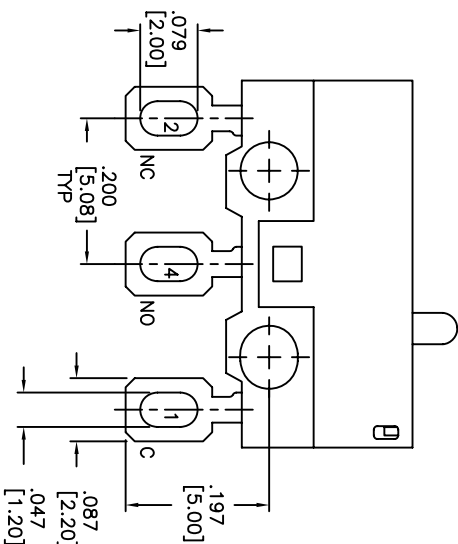
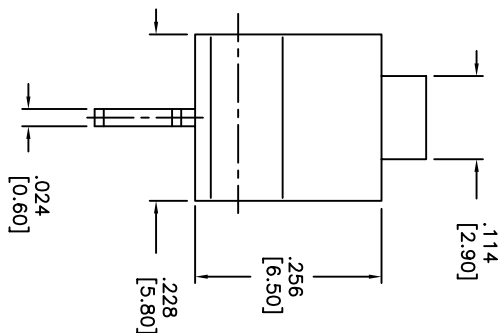
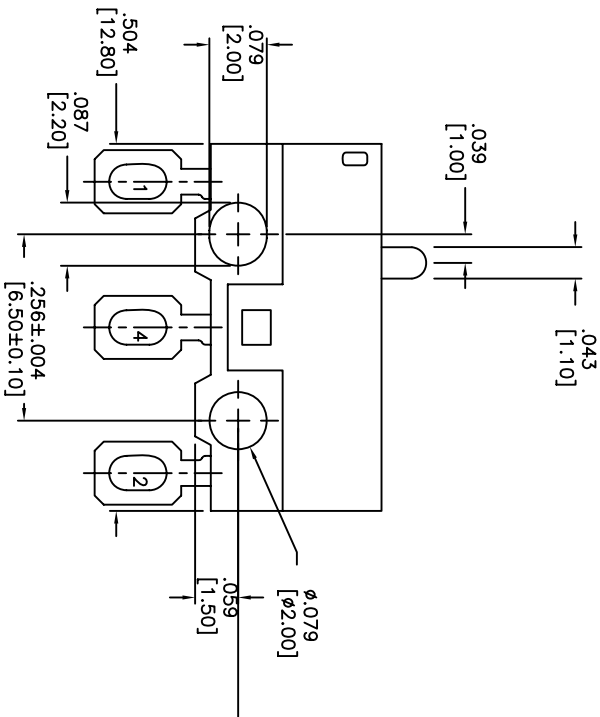
UNLESS OTHERWISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]

MDB1***01*04D
RATING
01=0.1A 125VAC
02=0.3A 125VAC
03=0.5A 125VAC
04=1A 125VAC
05=3A 125VAC
OPERATING FORCE
A=0.45N
B=1.0N
C=1.5N
D=2.0N
E=2.5N
F=3.0N
A=NORMALLY
CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER



Q.A. INSPECT	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	ANGLE = 40.5°
APM	63 Neck Rd. Hopkinton, MA 01835	INCH	SHEET 1 OF 1
DATE 7/21/06	DRAWING NO. MDB1***01*04D	REV A	REV

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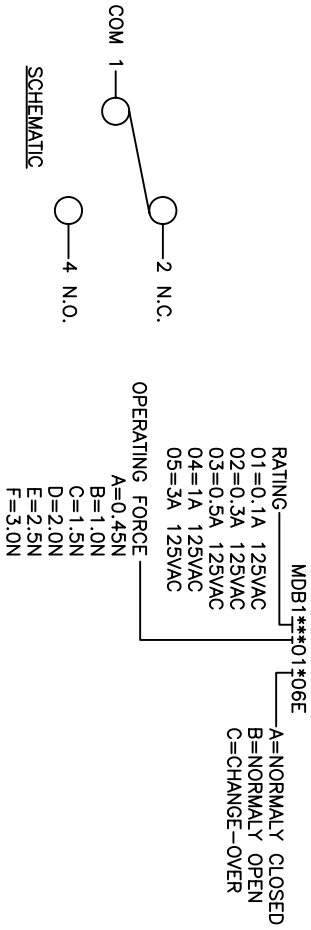
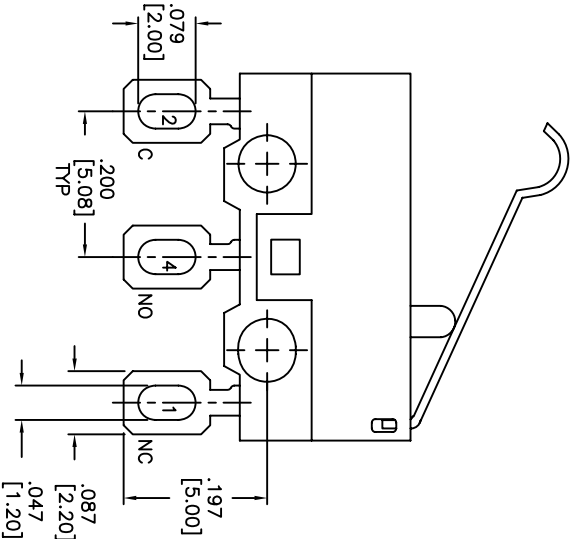
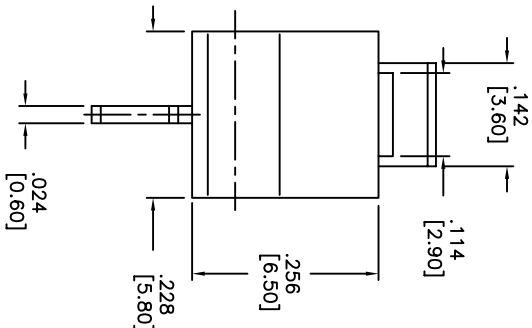
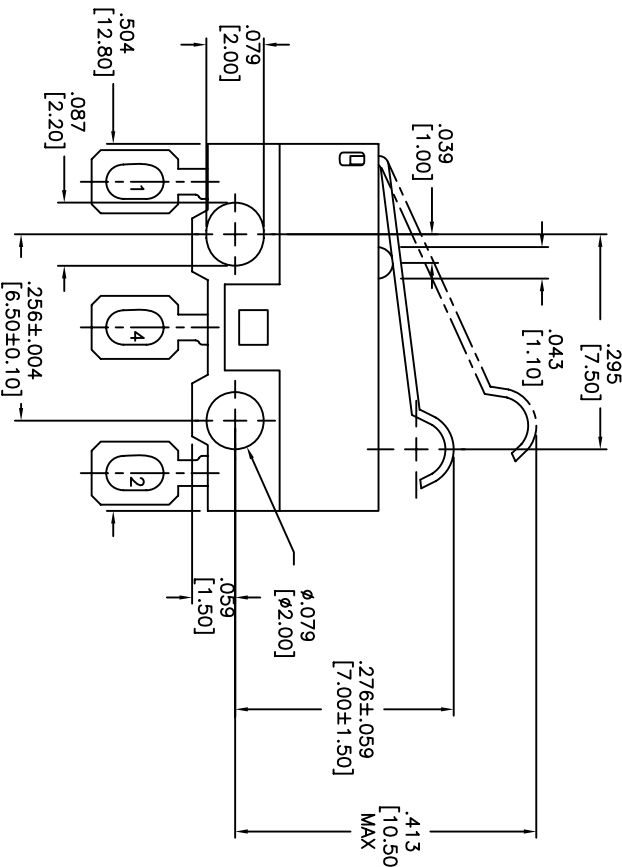


DESCRIPTION: MICRO SWITCH
SPECIFICATIONS:
MECHANICAL LIFE: MIN 1MIO ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm
MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACT SPRING: BERYLLIUM COPPER

DATE	SYM	REVISION RECORD	DWN.	CK.

Q.A. INSPECT	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS OTHERWISE SPECIFIED)	ANGLE = 40.5°
INCH	1 OF 1	SIZE	SCALE
DATE	3/10/06	DRAWING NO.	MDB1***01*04E
REV	A		

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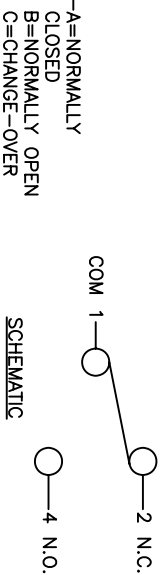


DESCRIPTION: MICRO SWITCH
SPECIFICATIONS:
MECHANICAL LIFE: MIN 1MIO ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm
MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACTS: NICKEL, SILVER
CONTACT SPRING: BERYLLIUM COPPER

DATE	SYM	REVISION RECORD	DWN.	CK.

Q.A. INSPECT ▽	DESIGNATES OPTICAL DIMENSION	 APPEM 63 Neck Rd. Haverhill, MA 01835 Phone 978-372-3554 Fax 978-372-3554	DRN. CJD		
TOLERANCES (UNLESS AS NOTED) .XX±.XX(.XX) .XXX±.XXX(.XX) ANGLE = 40.5°	INCH (MM)	SHEET 1 OF 1	SIZE B	SCALE 6:1	THIRD ANGLE PROJECTION 
TITLE MICRO SWITCH					
DATE 2/22/06	DRAWING NO. MDB1***01*06E		REV A		

DATE	SYM	REVISION RECORD	DWN.	CK.



MD81***01*07°C

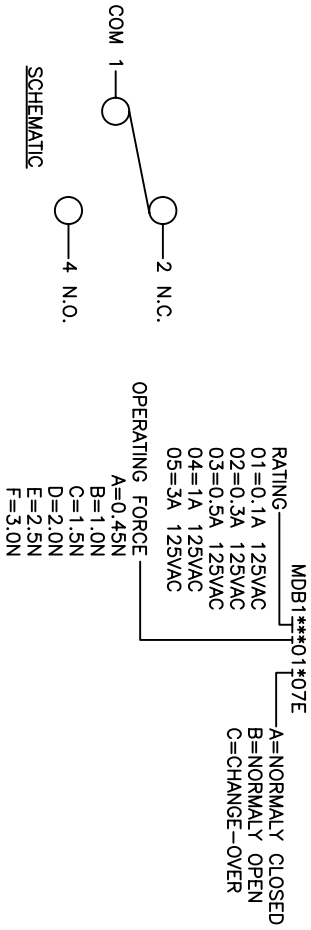
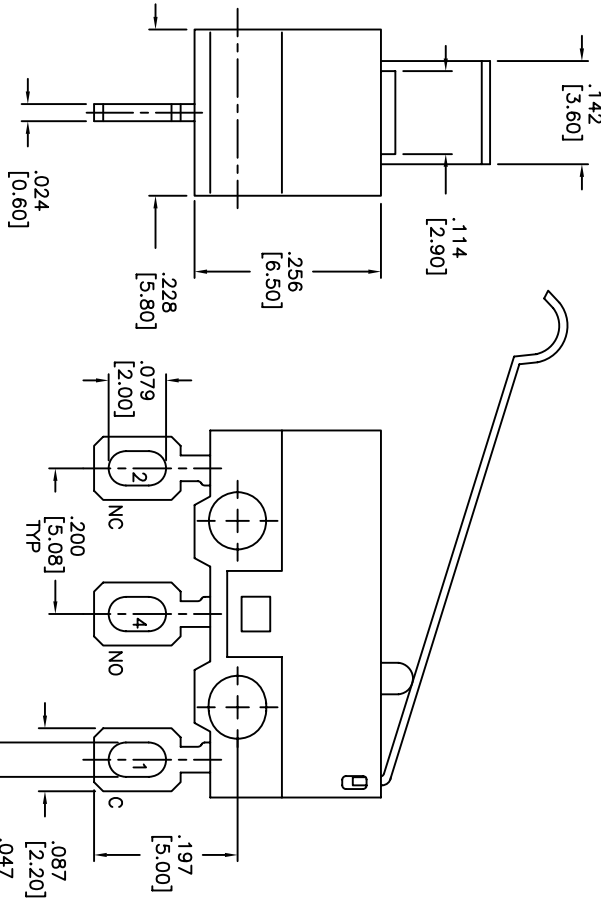
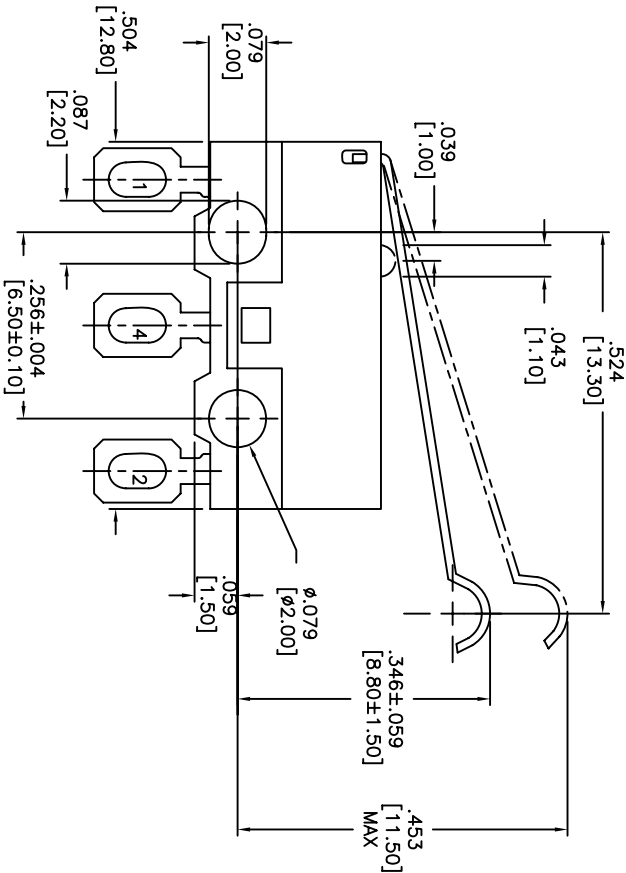
RATING	
01=0.1A 125VAC	
02=0.3A 125VAC	
03=0.5A 125VAC	
04=1A 125VAC	
05=3A 125VAC	

OPERATING FORCE

A=0.45N
B=1.0N
C=1.5N
D=2.0N
E=2.5N
F=3.0N

 APEM AIR-TECH CORPORATION, INC. 63 Mack Rd. Houghton, MI 48635 Tel: 313-776-3772-1602 Fax: 313-776-3534	DRN: CJD BY: PJD	
	CRK:	
TITLE: MICRO SWITCH	SHEET: 1 OF 1 INCH (MM): 1	SIZE: B SCALE: 6:1 THIRD ANGLE PROJECTION: 

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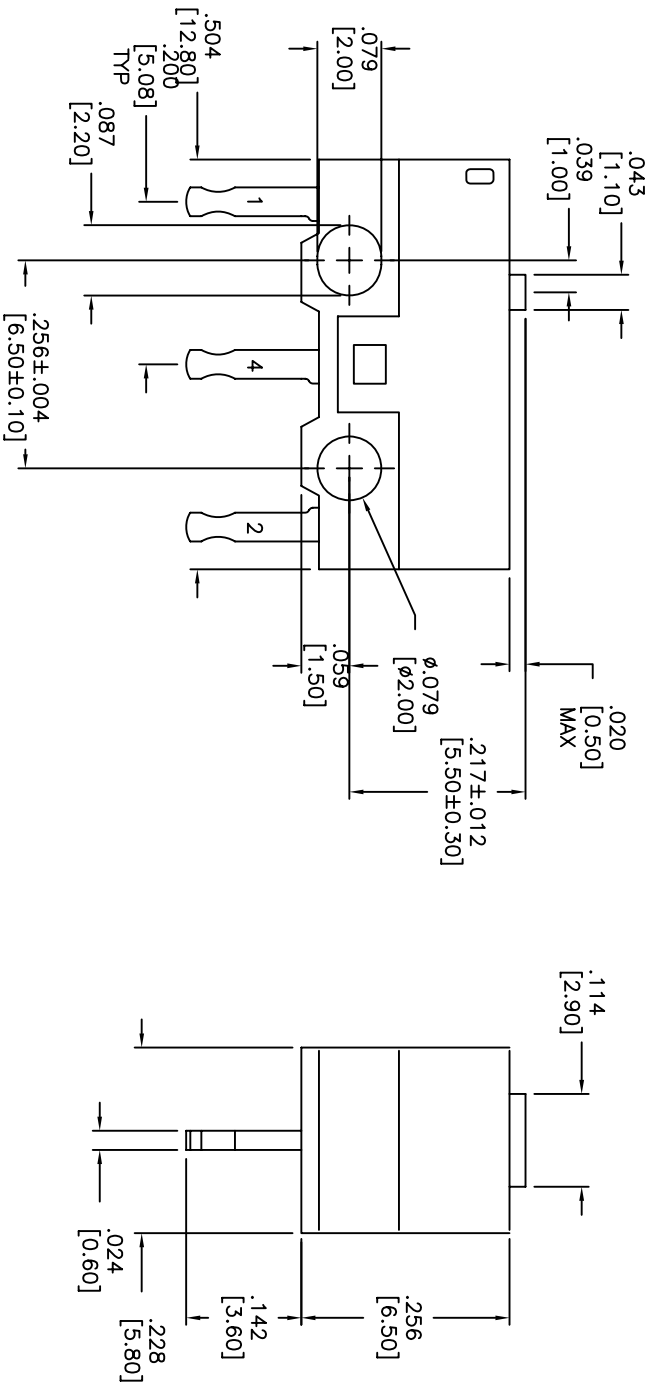
DESCRIPTION: MICRO SWITCH
SPECIFICATIONS:
MECHANICAL LIFE: MIN 1MIO ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm

MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACTS: NICKEL, SILVER
CONTACT SPRING: BERYLLIUM COPPER

DATE	SYM	REVISION	RECORD	DWN.	CK.

Q.A. INSPECT	DESIGNATES CRITICAL DIMENSION		63 Neck Rd. Hopkinton, MA 01835 Tel: 508-372-3554 Fax: 508-372-3554		DRN. CJD
TOLERANCES (UNLESS OTHERWISE SPECIFIED)	INCH (MM)		SHEET 1 OF 1	SIZE B	SCALE 6:1
.XX±.XX(X) .XXX±.XXX(X) .XXXX±.XXXX(X) ANGLE = 40.5°	TITLE MICRO SWITCH				
DO NOT SCALE DIMENSIONS	DATE	DRAWING NO.	REV		
	3/10/06	MDB1***01*07E	A		

DATE	SYM	REVISION RECORD	DWN.	CK.



DESCRIPTION: MICRO SWITCH

SPECIFICATIONS:

MECHANICAL LIFE: MIN 1MIO ACTUATIONS

ELECTRICAL LIFE: MIN 100,000 ACTUATIONS

PRETRAVEL: ≤ 0.5mm

OVERTRAVEL: MIN. 0.2

MOVEMENT DIFFERENTIAL: ≤ 0.2mm

OPERATING POSITION: 5.5 ± 0.3mm

MATERIALS:

SOCKET: PBT UL94V-0

CAP: PBT UL94V-0

ACTUATOR: PBT UL94V-0

TERMINALS: BRASS, SILVER PLATED

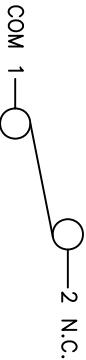
CONTACTS: NICKLE SILVER

MDB1***01*01A

RATING: 01=0.1A 125VAC
02=0.3A 125VAC
03=0.5A 125VAC
04=1A 125VAC
05=3A 125VAC

OPERATING FORCE: A=0.45N
B=1.0N
C=1.5N
D=2.0N
E=2.5N
F=3.0N

A=NORMALLY CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER



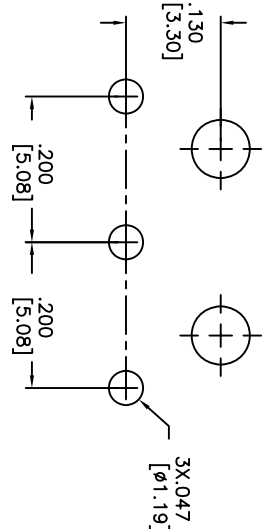
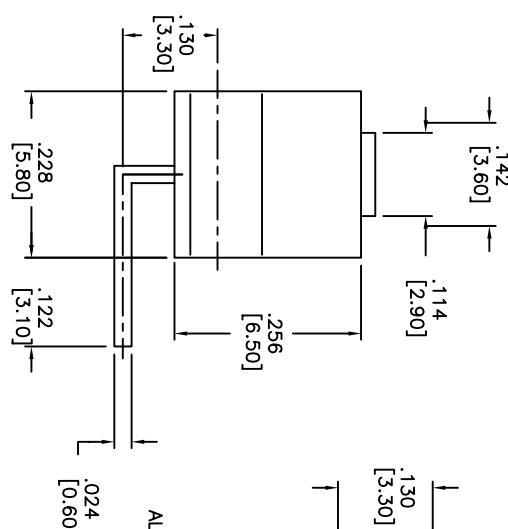
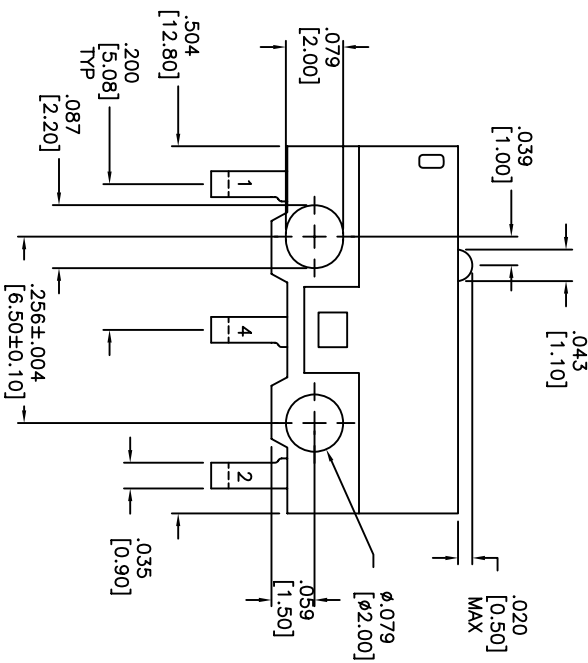
SCHEMATIC

APTEM CONFIDENTIAL

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TOLERANCES (EXCEPT AS NOTED)		 APEM HAVERHILL, MA.			
DECIMAL ± .008	INCH (MM)	SCALE 6:1	DRAWN CJD		
FRACTIONAL ± —	TITLE MICRO SWITCH				
ANGULAR ± —	DATE 07/28/05	DRAWING NUMBER MDB1***01*01A	REV —		

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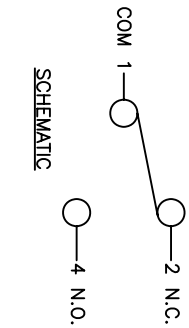


UNLESS OTHER WISE SPECIFIED
ALL P.C. TOLERANCES ARE ±.002 [0.05]

MDB1***01*01C

RATING
01=0.1A 125VAC
02=0.3A 125VAC
03=0.5A 125VAC
04=1A 125VAC
05=3A 125VAC

A=NORMALLY CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER



OPERATING FORCE

A=0.45N
B=1.0N
C=1.5N
D=2.0N
E=2.5N
F=3.0N

DATE	SYM	REVISION	RECORD	DWN.	CK.

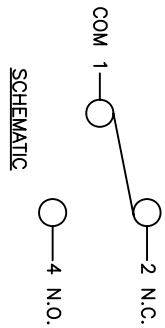
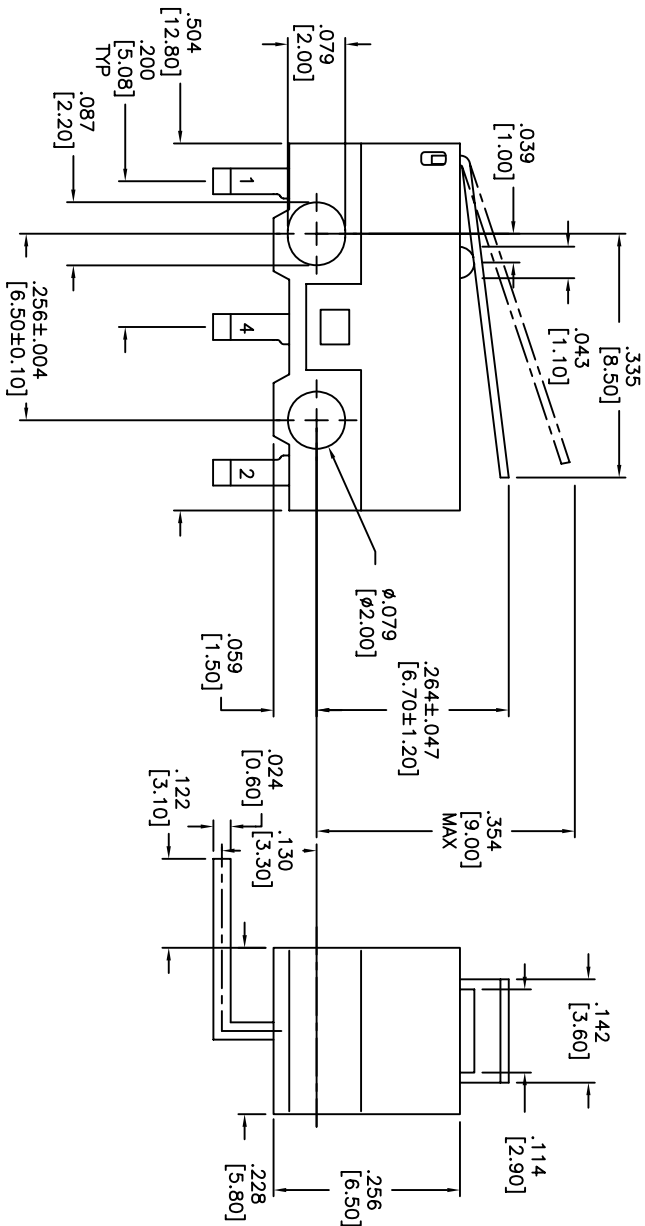
DESCRIPTION: MICRO SWITCH

SPECIFICATIONS:
MECHANICAL LIFE: MIN 1M00 ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm

MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACTS: SILVER PLATED
CONTACT SPRING: BERYLLIUM COPPER

Q.A. INSPECT	DESIGNATES CRITICAL DIMENSION	TOLERANCES (UNLESS AS NOTED) XXX=±.02[0.05] XXXX=±.008[0.20] XXXXX=±.0008[0.02] ANGLE = 40.5°	DATE 8/3/06	DRAWING NO. MDB1***01*01C	REV A
 APEM Haverhill, MA 01830 Tel: 978-372-3534 Fax: 978-372-3534			P.N. CJD B.R. PJD THIRD ANGLE PROJECTION		
TITLE MICRO SWITCH			SHEET 1 OF 1 SIZE B SCALE 6:1 THIRD ANGLE PROJECTION		

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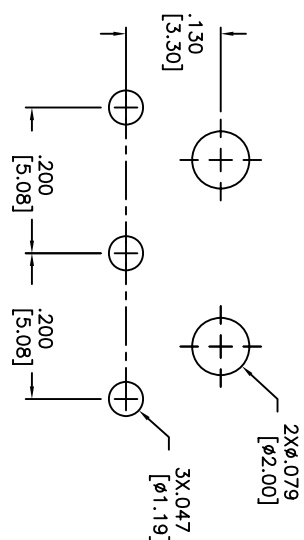
MDB1***01*02D

RATING
01=0.1A 125VAC
02=0.3A 125VAC
03=0.5A 125VAC
04=1A 125VAC
05=3A 125VAC

OPERATING FORCE
A=0.45N
B=1.0N
C=1.5N
D=2.0N
E=2.5N
F=3.0N

A=NORMALLY CLOSED
B=NORMALLY OPEN
C=CHANGE-OVER

P.C.B LAYOUT
UNLESS OTHERWISE SPECIFIED
ALL P.C TOLERANCES ARE ±.002 [0.05]



Q.A. INSPECT		DESIGNATES CRITICAL DIMENSION		TOLERANCES (DEPART AS NOTED)		TITLE	
MICRO SWITCH		MICRO SWITCH		MICRO SWITCH		MICRO SWITCH	
DO NOT SCALE DRAWING		DATE		DRAWING NO.		REV	
9/21/05		MDB1***01*02D		B			

DESCRIPTION: MICRO SWITCH
SPECIFICATIONS:
MECHANICAL LIFE: MIN 1M0 ACTUATIONS
ELECTRICAL LIFE: MIN 100,000 ACTUATIONS
PRETRAVEL: ≤ 0.5mm
OVERTRAVEL: MIN. 0.2mm
MOVEMENT DIFFERENTIAL: ≤ 0.2mm
OPERATING POSITION: 5.5 ± 0.3mm
MATERIALS:
SOCKET: PBT UL94V-0
CAP: PBT UL94V-0
ACTUATOR: PBT UL94V-0
TERMINALS: BRASS, SILVER PLATED
CONTACTS: NICKEL SILVER
CONTACT SPRING: BERYLLIUM COPPER