

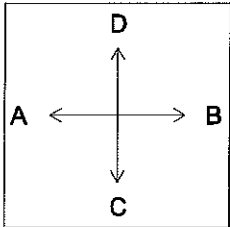
MECHANICAL OPTIONS

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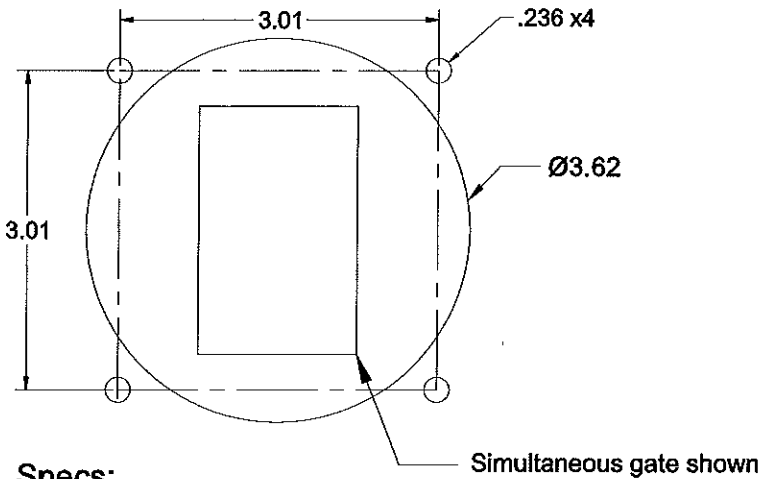
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	S12 ADDED PER ECN#28913	MER*5/4/17	DDO*5/4/17

HANDLE OPERATION	
A-B AXIS	C-D AXIS
SPRING RETURN PARK POSITION	FRICTION HOLD
GATE OPTIONS	
CROSS GATE	
SINGLE AXIS	
SIMULTANEOUS	
SPECIAL	
EXAMPLES	
	

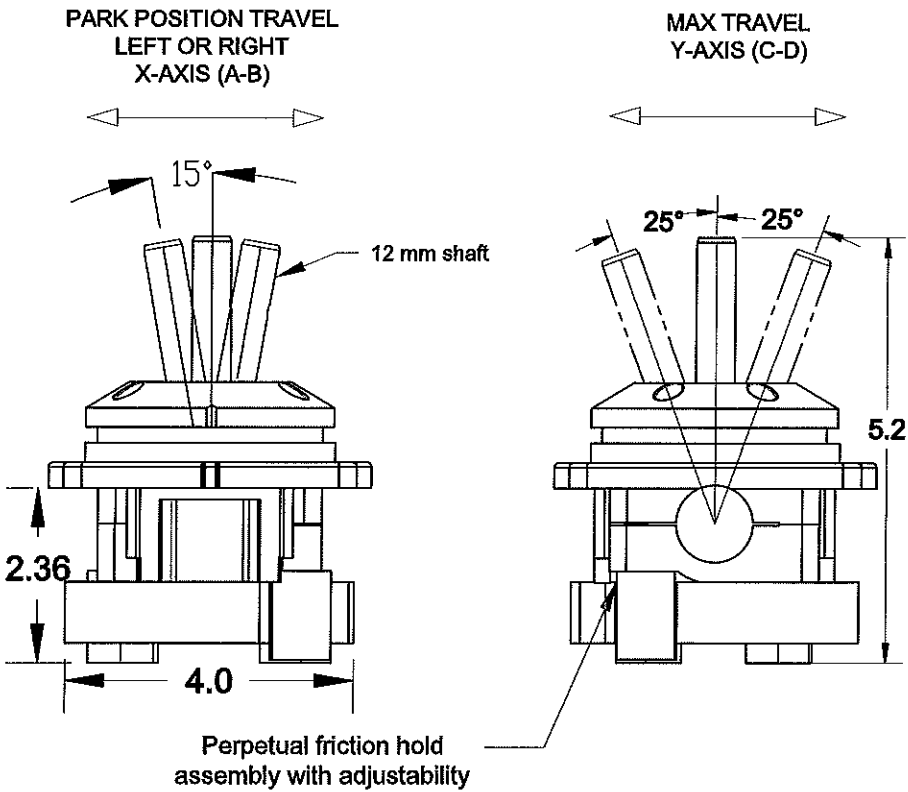
Handle Travel Direction



MOUNTING DIMENSION

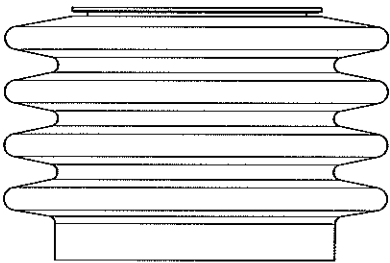


Specs:
IP rating: IP54
Temperature Rating:-40 TO 60°C
Mechanical life: 20 million cycles
EMC test per EN61000-4-3:2006 and ISO 11452-2

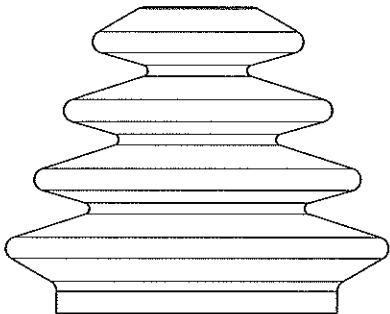


BOOT OPTIONS

BOOT FOR MG1, 2, 3, 8,
12 (L&R), 25 (L&R), 26
(L&R)



STANDARD BOOT FOR KNOB
MG5, MG6, MG7, MG9, MG10
MG10 (L&R), MG11, MG15,
MG15 (L&R), MG16, MG23
(L&R)



Protective housing cover available with all boot options

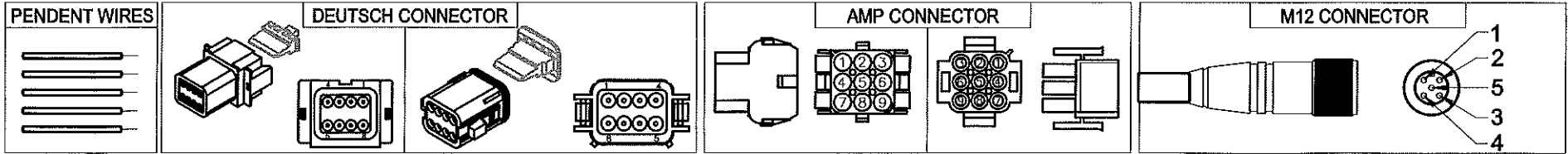
ELECTRICAL CONFIGURATIONS

Name	Power Supply Range	Output Type	#Digital Inputs	#Analog Inputs	#Sourcing Digital Outputs	#Sinking Digital Outputs (thumper)	Handle Multiplex (Mux) Interface	Friction Hold Capable	ID Resistor Capable	Notes
V24	9V - 32V	CAN Open (DS401), J1939	8*	4*	1	0	Yes	Yes	No	*Four digital-only inputs plus four inputs that are either digital or analog.

Wiring Options: Pendent wires (6-12" Std) with Deutsch connectors, AMP connectors standard or Customer Specific. Direct can enclosure mount: 75mm or 103mm only Deutsch or AMP Std.

Analog Output	Tolerance
0V	(+0.1V), -0V
0V < OUT ≤ 4.5V	+/-0.1V
4.5V < OUT ≤ 6V	+/-0.15V
6V < OUT ≤ 8V	+/-0.2V
8V < OUT ≤ 10V	+/-0.25V
10V < OUT ≤ 12V	+/-0.3V
12V < OUT ≤ 14V	+/-0.35V
14V < OUT ≤ 16V	+/-0.4V
16V < OUT ≤ 18V	+/-0.45V
18V < OUT ≤ 20V	+/-0.5V
4mA ≤ OUT ≤ 12mA	+/-0.25mA
12mA < OUT ≤ 20mA	+/-0.50mA

Power Supply Range	Output Type	#Digital Inputs	#Digital Outputs	#Analog Outputs	Analog Output Range	Ratiometric Output Capable	Friction Hold Capable	Notes
9V - 32V	Voltage Output	2	4	1	0V to Vbat - 1V*	NO	Yes	*Actual Output values and curve shape set by software. Analog Output tolerances per chart on right.
9V - 32V	PLC Current Output	2	4	1	4mA to 20mA*	No	No	



DRAWN BY MER

CHECKED KTS

APVD ENG.

APVD DESN

APVD SALES

PROJECTION: 

DATE 3/22/17

3/29/17

1



10 Controls Drive - Shelton, CT 06484
Phone: (203) 929-8431 Fax: (203) 929-3867

PAGE 1 OF 3

JS24 CATALOG

MECHANICAL

PART NO.

DWG NO. B31384

REV B

SCALE NTS

SHEET 1 OF 3

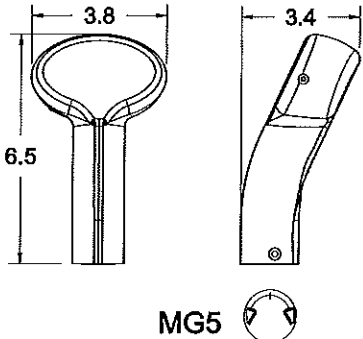
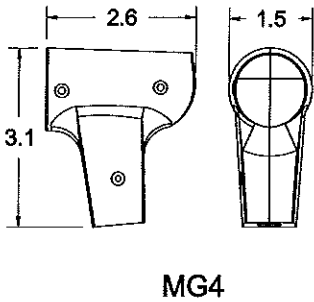
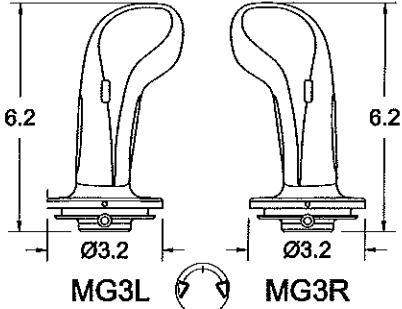
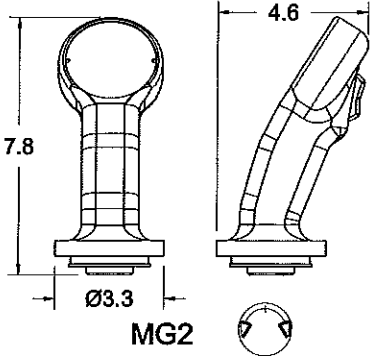
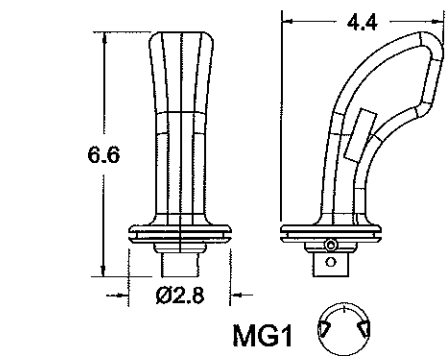
SIZE B

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MG HANDLE OPTIONS

ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE STATED

REVISIONS			DATE	APPROVED
ZONE	REV	DESCRIPTION		
-	B	S12 ADDED PER ECN#28913	MER*5/4/17	DDO*5/4/17

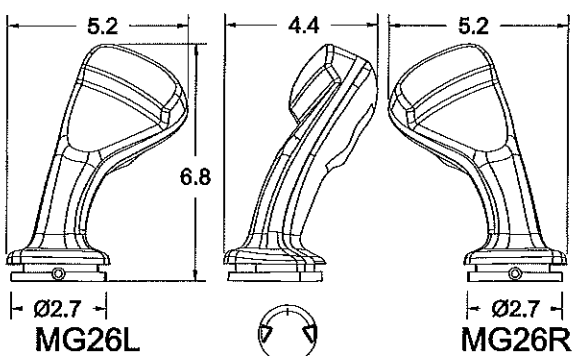
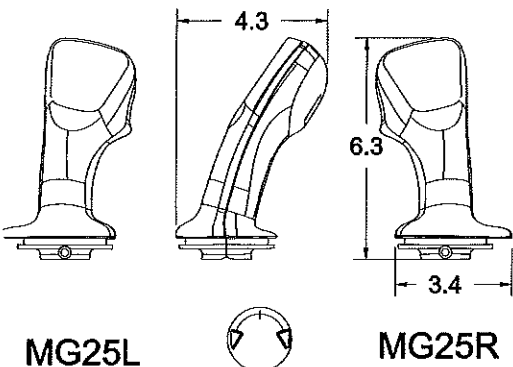
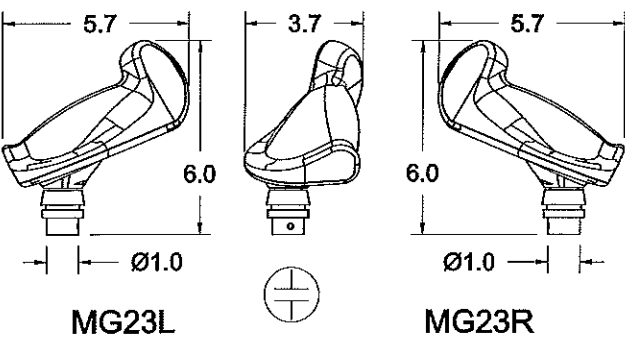
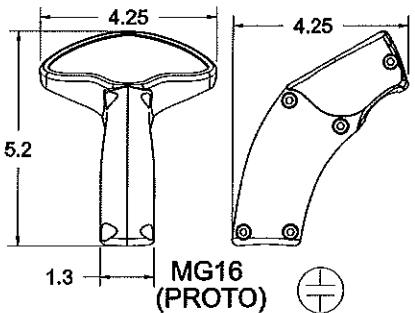
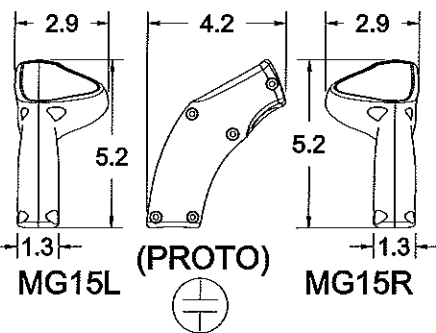
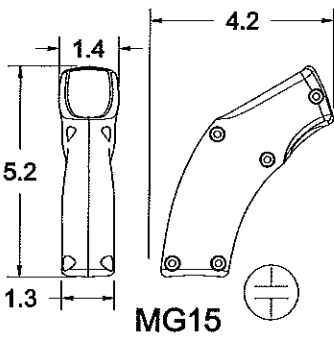
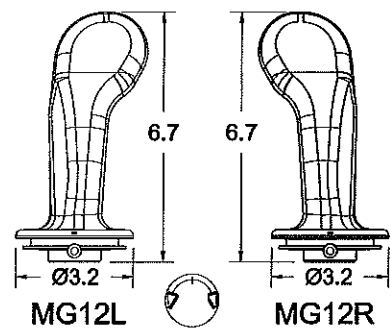
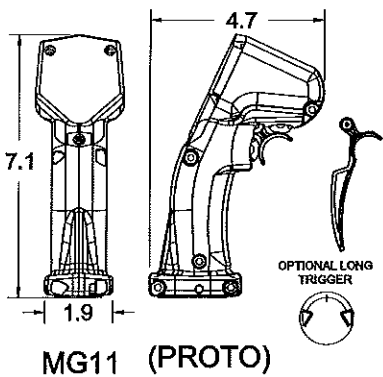
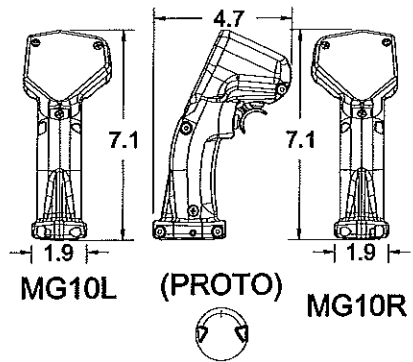
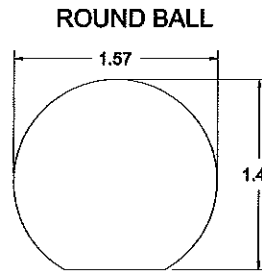
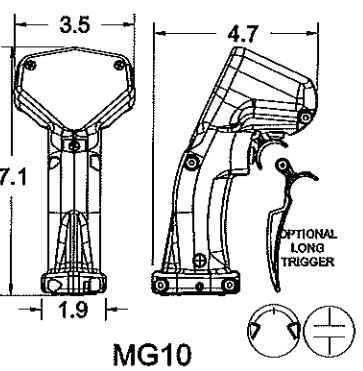
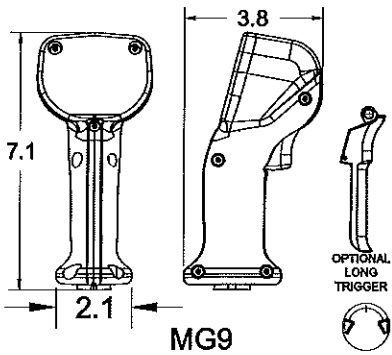
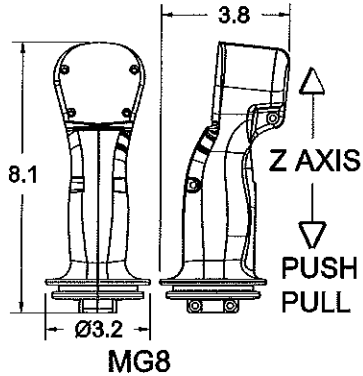
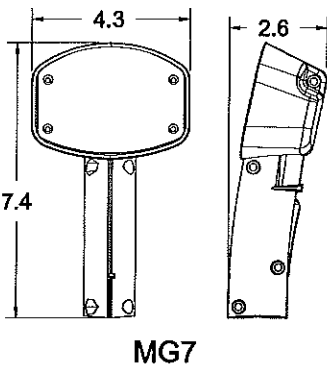
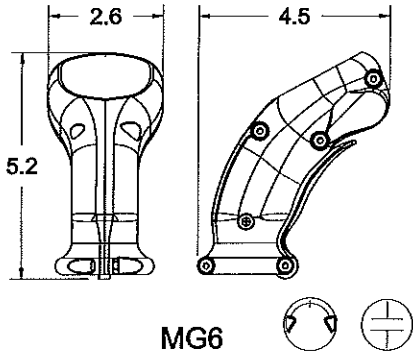


Z AXIS TWIST
60°

AVAILABLE ON MOST MG
HANDLES:

CAPACITOR HAND
SENSOR

AVAILABLE ON SOME MG
HANDLES:

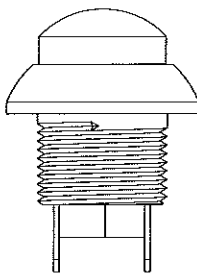


DRAWN BY MER	DATE 3/22/17	 10 Controls Drive - Shelton, CT 06484 Phone: (203) 929-8431 Fax: (203) 929-3867 PAGE 2 OF 3 JS24 CATALOG HANDLE OPTIONS	
CHECKED KTS	3/29/17		
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:		PART NO.	DWG NO. B31384
		SCALE NTS	SHEET 2 OF 3
		REV	B
		SIZE	B

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	S12 ADDED PER ECN#28913	MER*5/4/17	DDO*5/4/17

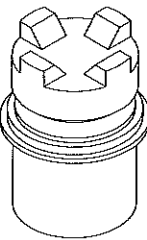
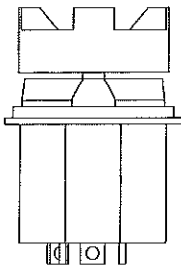
STANDARD COMPONENTS SHOWN. OTHERS AVAILABLE UPON REQUEST



RAISED DOME PUSHBUTTON
(SPST)

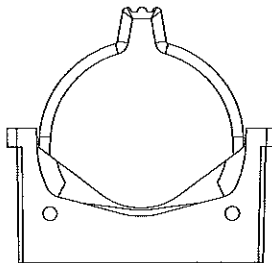
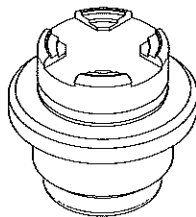
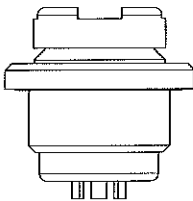
AVAILABLE COLORS

- RED
- BLACK
- YELLOW
- WHITE
- GRAY
- ORANGE

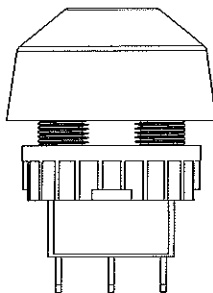


4 WAY ROCKER
AVAILABLE OPTIONS

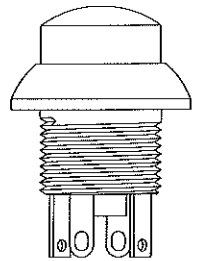
- TACTILE
- NO TACTILE



S12
SWITCH



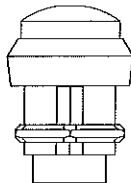
PUSHBUTTON
WITH MINI
MICRO



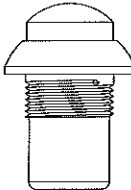
RAISED DOME PUSHBUTTON
(SPDT)

AVAILABLE COLORS

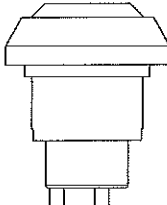
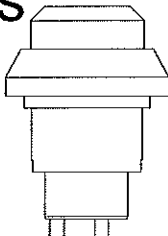
- WHITE
- YELLOW
- GRAY
- ORANGE
- BLUE
- GREEN



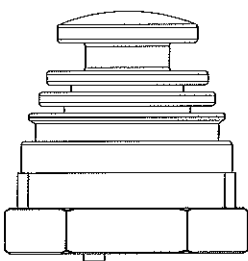
HALL EFFECT



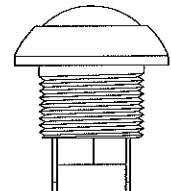
TACTILE/NO TACTILE



RAISED & FLUSH DOME



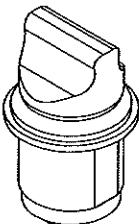
JS20 (SEE
MAIN
CATALOG)



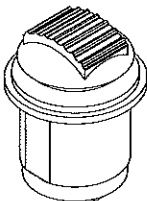
FLUSH DOME PUSHBUTTON

AVAILABLE COLORS

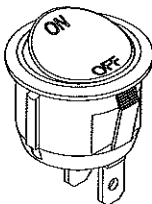
- YELLOW
- RED
- BLUE
- GREEN
- BLACK



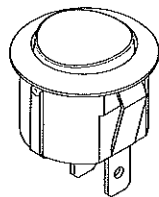
- OPTIONS
- MOM-OFF-MOM
 - MAINT ON-ON
 - MAINT ON-OFF-ON



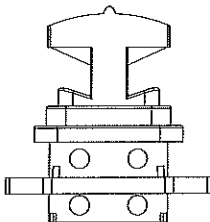
- OPTIONS
- MOM-OFF-MOM
 - MAINT ON-ON
 - MAINT ON-OFF-ON



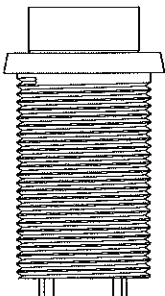
- OPTIONS
- ON-OFF



- OPTIONS
- MOM-OFF-MOM
 - MA-OFF-MA
 - GREEN AND RED LED AVAILABLE



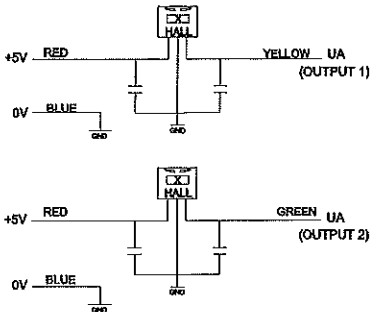
S9 SWITCH
(SEE MAIN
CATALOG)



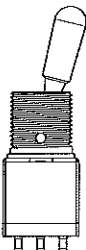
PROPORTIONAL PUSHBUTTON

AVAILABLE COLORS

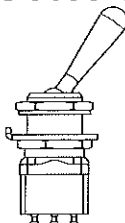
- WHITE
- BLACK



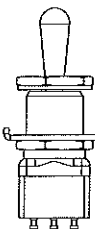
OUTPUT 1: 0.5V - 4.5V
OUTPUT 2: 4.5V - 0.5V



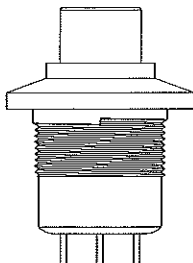
MOM-OFF-MOM



MAINT ON-ON



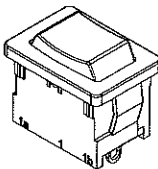
MAINT ON-OFF-ON



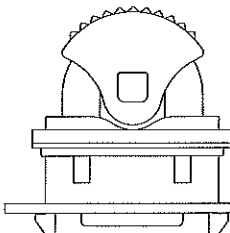
MAINTAINED PUSHBUTTON

AVAILABLE COLORS

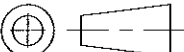
- BLACK
- WHITE



- OPTIONS
- MOM-MOM
 - MAINT-OFF-MAINT



HMS10 (SEE
MAIN CATALOG)

DRAWN BY	MER	DATE	3/22/17		10 Controls Drive - Shelton, CT 06484 Phone: (203) 929-8431 Fax: (203) 929-3867		
CHECKED	KTS	3/29/17					
APVD ENG.							
APVD DESN							
APVD SALES				PAGE 3 OF 3 JS24 CATALOG HANDLE COMPONENT OPTIONS			
PROJECTION: 							
PART NO.				DWG NO. B31384	REV B		
SCALE NTS				SHEET 3 OF 3	SIZE B		