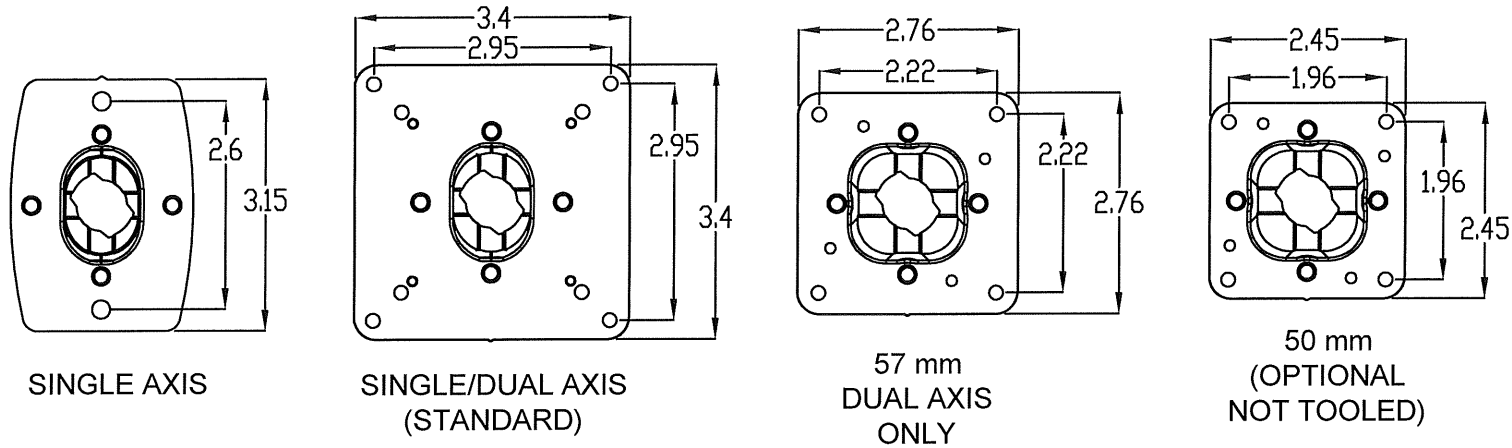


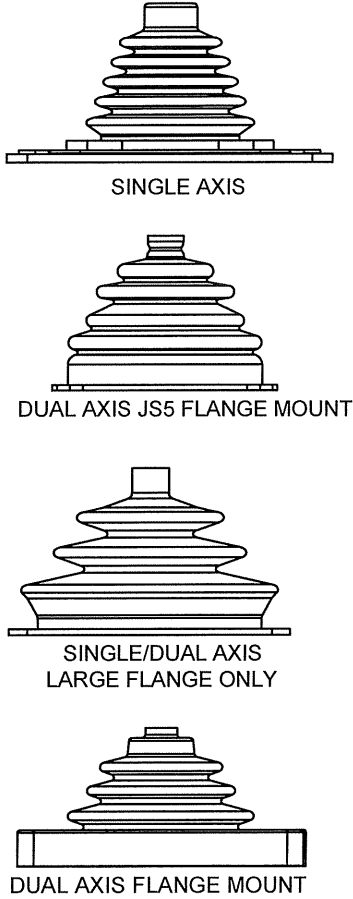
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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	D	UPDATED CATALOG AS PER ECN#503	JS*1/15/20	DDO*2/28/20

MOUNTING OPTIONS



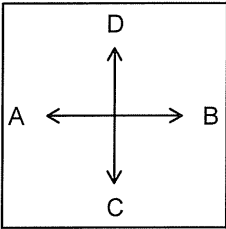
BOOT OPTIONS



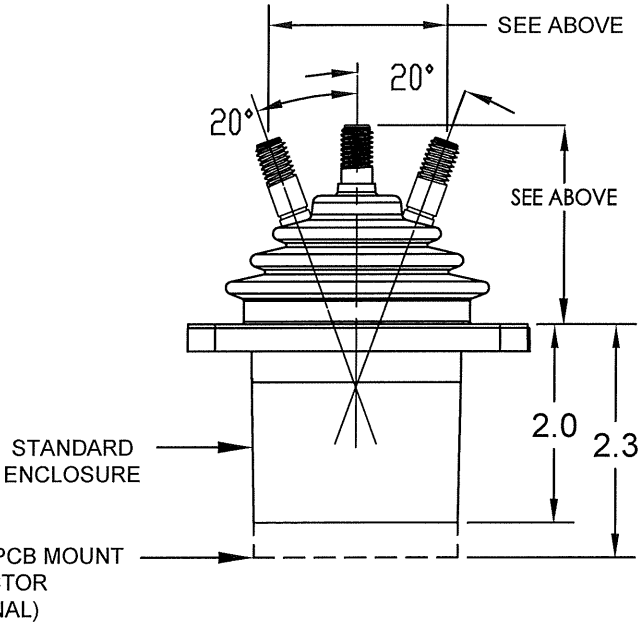
MECHANICAL OPTIONS

8mm HANDLE SHAFT DIAMETER Ø			
SHAFT LENGTH	HANDLE HEIGHT	HANDLE TRAVEL	OPTIONS
70mm	2.05"	1.02" EACH DIRECTION	OPTIONAL
80mm	2.44"	1.20" EACH DIRECTION	STANDARD
100mm	3.23"	1.26" EACH DIRECTION	OPTIONAL

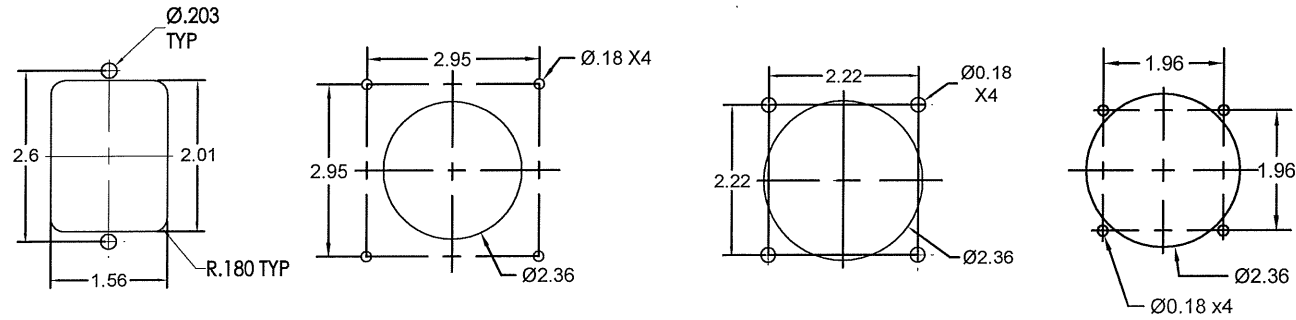
Handle Travel Direction



HANDLE OPERATION	
A-B AXIS	C-D AXIS
SPRING RETURN	
CROSS GATE	
FOR HANDLE OPTIONS SEE SHEET 2	



MOUNTING DIMENSIONS



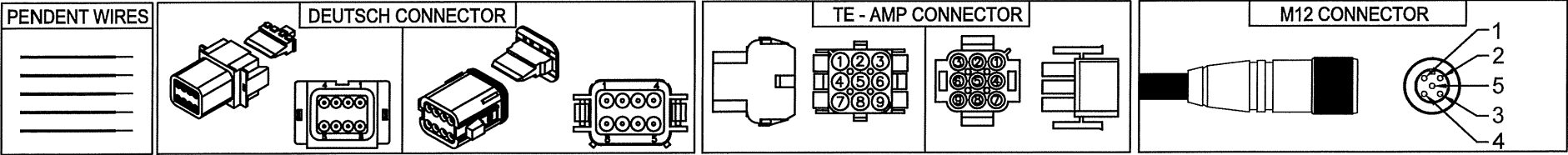
ELECTRICAL CONFIGURATIONS

Power Supply Range	Output Type	#Digital Inputs	#Analog I/O	Analog Output Range	Absolute/Ratiometric Output	Notes
4.5V - 5.5V	Voltage Output	0	2 OUTPUTS	0V to Vbat-0.2V*	Ratiometric Only	*Actual output values set by factory calibration software. See chart for analog output tolerances.
4V - 7V	Voltage Output	0	1 OUTPUT	0V to Vbat- 0.2V*	Absolute or Ratiometric	*Actual output values and curve shape set by software. See chart for analog output tolerances.
9V-30V	Voltage Output	1	2 OUTPUTS	0V to Vbat- 1V*	Absolute or Ratiometric	*Actual output values and curve shape set by software. See chart for analog output tolerances.
9V-32V	CANopen (DS401),J1939	3	0 INPUTS	N/A	N/A	—
9V-32V	CANopen (DS401),J1339	5	2 INPUTS	N/A	N/A	* Two analog inputs shared with digital inputs for a total not to exceed five. This is a two board set.
9V-32V	CANopen (DS401),J1939	15	7 INPUTS	N/A	N/A	* PCB is larger than joystick housing.

Wiring Options: 12" pendent wire harness, 12" harness with TE-AMP connector, 12" harness with Deutsch connector or customer specified wiring harness.

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

Specifications:
Operating temperature range:-40 TO +70°C
Mechanical life:1 million cycles
Maximum handle side load: 140 lb



DRAWN BY ALB

CHECKED DDO

APVD ENG.

APVD DESN

APVD SALES

PROJECTION:

DATE 5-17-16

5/17/16

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

PAGE 1 OF 3

HJS7 CATALOG

MECHANICAL AND ELECTRICAL OPTIONS

PART NO.

DWG NO. B30209

REV D

SCALE NTS

SHEET 1 OF 3

SIZE B

RG HANDLES ARE AVAILABLE IN FLANGELESS, REDUCED, OR FULL FLANGE CONFIGURATIONS

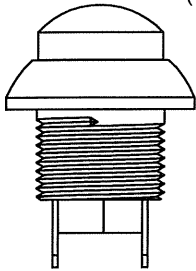
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	D	UPDATED CATALOG AS PER ECN#503	JS*1/15/20	DDO*2/27/20



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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	D	UPDATED CATALOG AS PER ECN#503	JS*1/15/20	DDO*2/27/20

STANDARD COMPONENTS SHOWN. OTHERS AVAILABLE UPON REQUEST



RAISED DOME PUSHBUTTON (SPST) IP/64

AVAILABLE COLORS

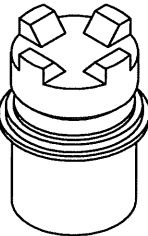
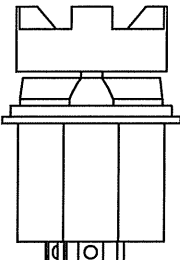
- RED
- BLACK
- YELLOW
- WHITE
- GRAY
- ORANGE
- GREEN
- BLUE



RAISED DOME PUSHBUTTON (SPST) IP/68

AVAILABLE COLORS

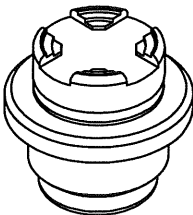
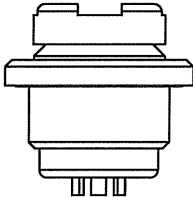
- RED
- BLACK
- YELLOW
- WHITE
- GRAY
- ORANGE
- GREEN
- BLUE

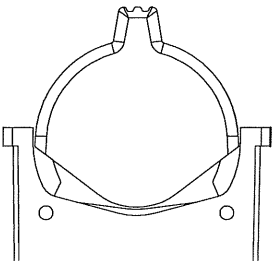


4 WAY ROCKER

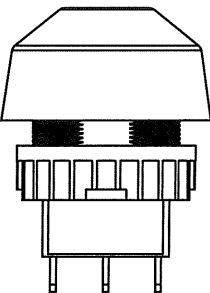
AVAILABLE OPTIONS

- TACTILE
- NO TACTILE

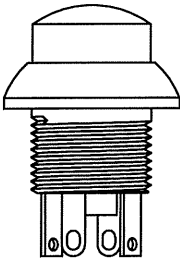




S12 SWITCH



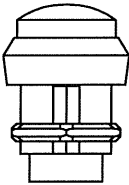
PUSHBUTTON WITH MINI MICRO



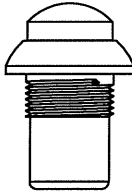
RAISED DOME PUSHBUTTON (SPDT) IP/64

AVAILABLE COLORS

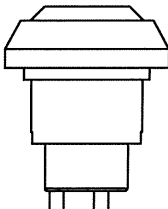
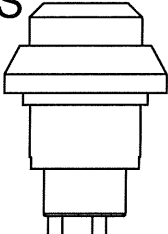
- WHITE
- RED
- YELLOW
- BLACK
- GRAY
- ORANGE
- BLUE
- GREEN



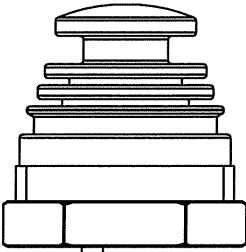
HALL EFFECT



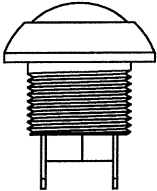
TACTILE/NO TACTILE



RAISED & FLUSH DOME



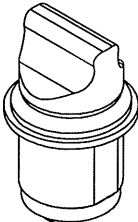
JS20 (SEE MAIN CATALOG)



FLUSH DOME PUSHBUTTON IP/64

AVAILABLE COLORS

- YELLOW
- RED
- BLUE
- GREEN
- BLACK
- ORANGE



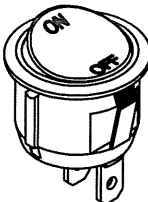
OPTIONS

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



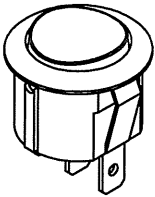
OPTIONS

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



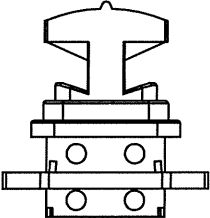
OPTIONS

- ON-OFF

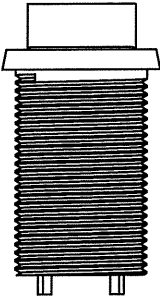


OPTIONS

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



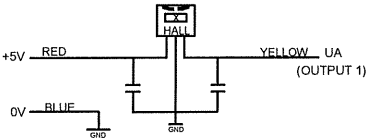
S9 SWITCH (SEE MAIN CATALOG)



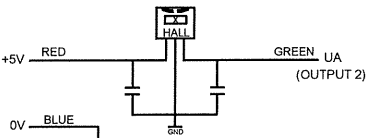
PROPORTIONAL PUSHBUTTON

AVAILABLE COLORS

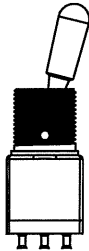
- WHITE
- BLACK



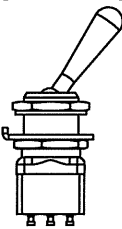
OUTPUT 1: 0.5V - 4.5V



OUTPUT 2: 4.5V - 0.5V



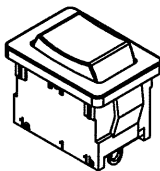
MOM-OFF-MOM



MAINT ON-ON

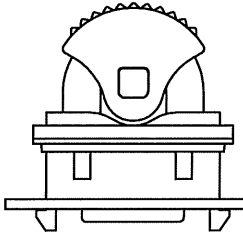


MAINT ON-OFF-ON

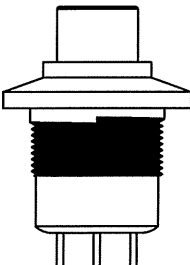


OPTIONS

- MOM-MOM
- MAINT-OFF-MAINT



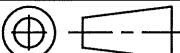
HMS10 (SEE MAIN CATALOG)



MAINTAINED PUSHBUTTON

AVAILABLE COLORS

- BLACK
- WHITE

DRAWN BY	MER	DATE	6/20/16
CHECKED	DDO		12/5/16
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:			



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

PAGE 3 OF 3
HJS7 CATALOG
HANDLE COMPONENT OPTIONS

PART NO.	DWG NO. B30209	REV D
SCALE NTS	SHEET 3 OF 3	SIZE B