

MECHANICAL OPTIONS

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	UPDATED CATALOG AS PER ECN #503	MAH*5/28/20	DDO*7/16/20

FRICTION HOLD

(D8SA12)

*HOUSINGS NOT TO SCALE

SPRING RETURN

(D8SA4)

SPRING RETURN

(D8SA11)

SPRING RETURN

(D8SA7)

SPRING RETURN

(D8SA3)

Specs:
IP rating: IP 67
Range of travel: ±30°
Temperature Rating: -40°C to 60°C
Mechanical Life: 8 million cycles
EMC tests per EN61000-4.3 and ISO 11452

AVAILABLE BOOT SHOWN

MOUNTING DIMENSION

VOLTAGE OUTPUT CURVE

Common output shown for one axis. Output curves are redundant and customizable.

HANDLE OPERATION

A-B AXIS	C-D AXIS
SPRING RETURN FRICTION HOLD	

HANDLE TRAVEL DIRECTION

Output options

- Output curve 1 and 2 identical
- Output curve 1 and 2 inverted
- Center and/or end plateau
- -10V to +10V
- 4.5V to .5V to 4.5V
- More available upon request

ELECTRONIC 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
OCI-7	9V - 32V	CANopen (DS401), J1939	15*	1*	1	1	No	No	Yes	*Thirteen digital-only inputs plus one that is either a standard active high or active low digital input plus one input that is either digital or analog

Wiring Options: Pendent wires, Deutsch connectors, AMP connectors or Customer Request.

Power Supply Range	Output Type	#Digital Inputs	#Digital Outputs	#Analog Outputs	Analog Output Range	Ratiometric Output Capable	Friction Hold Capable	Notes
9V - 30V	Voltage Output	2	4	2	0V to Vbat - 1V*	Yes	No	*Actual Output values and curve shape set by software. Analog Output tolerances per chart on right.
9V - 32V	Voltage Output	2	2	2	-10V to +10V*	No	No	
9V - 30V	PLC Current Output	0	4	2	4mA to 20mA*	No	No	

Wiring Options: Pendent wires, Deutsch connectors, AMP connectors or Customer Request.

CAN ECLOSURE OPTIONS

Height	Color
55mm	BLACK or SILVER
68mm	BLACK or SILVER
75mm	BLACK or SILVER
103mm	BLACK or SILVER

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

PENDENT WIRES

DEUTSCH CONNECTOR

AMP CONNECTOR

M12 CONNECTOR

DRAWN BY MER

CHECKED DDO

APVD ENG.

APVD DESN

APVD SALES

PROJECTION:

DATE 4/6/17

5/25/17

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

PAGE 1 OF 5

HMS8 CATALOG

MECHANICAL AND ELECTRICAL OPTIONS

PART NO.

SCALE 1:1

DWG NO. B29830

SHEET 1 OF 5

REV B

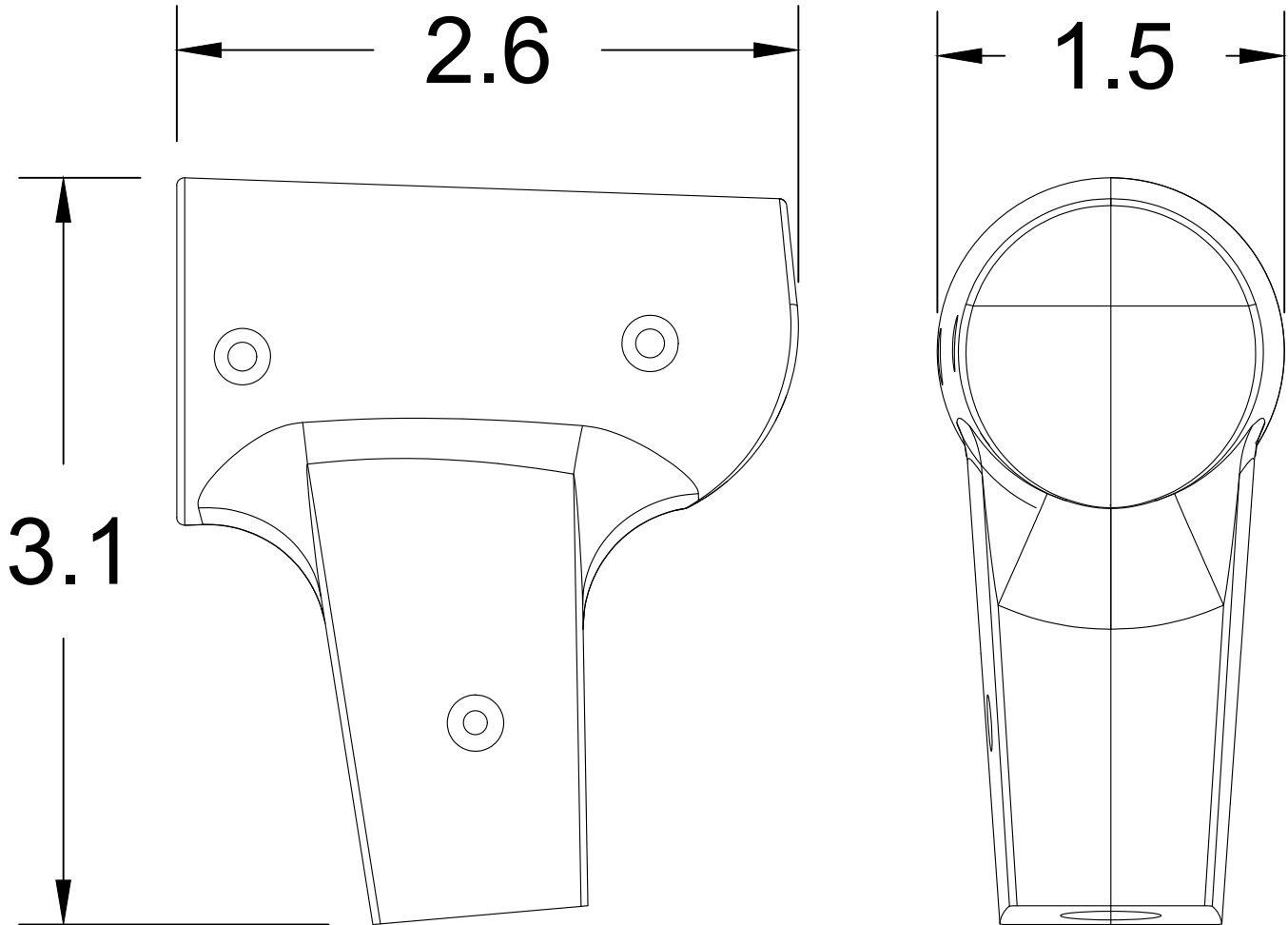
SIZE B

MG HANDLE OPTIONS

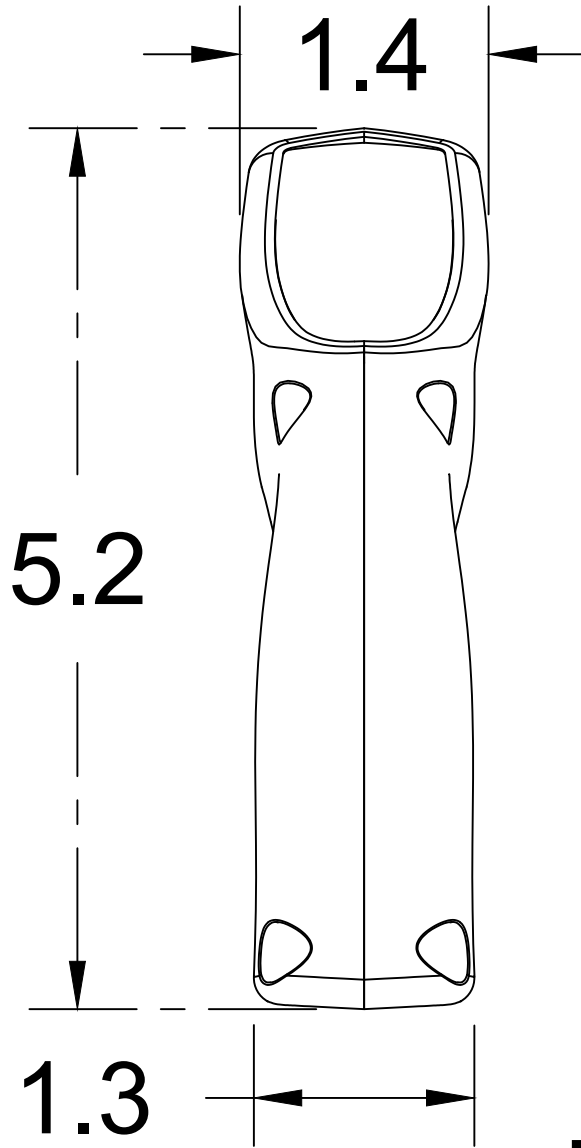
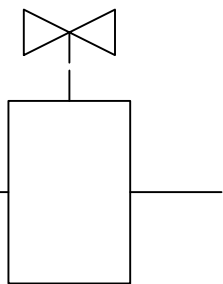
ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE STATED

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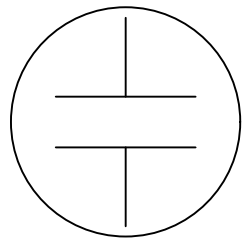
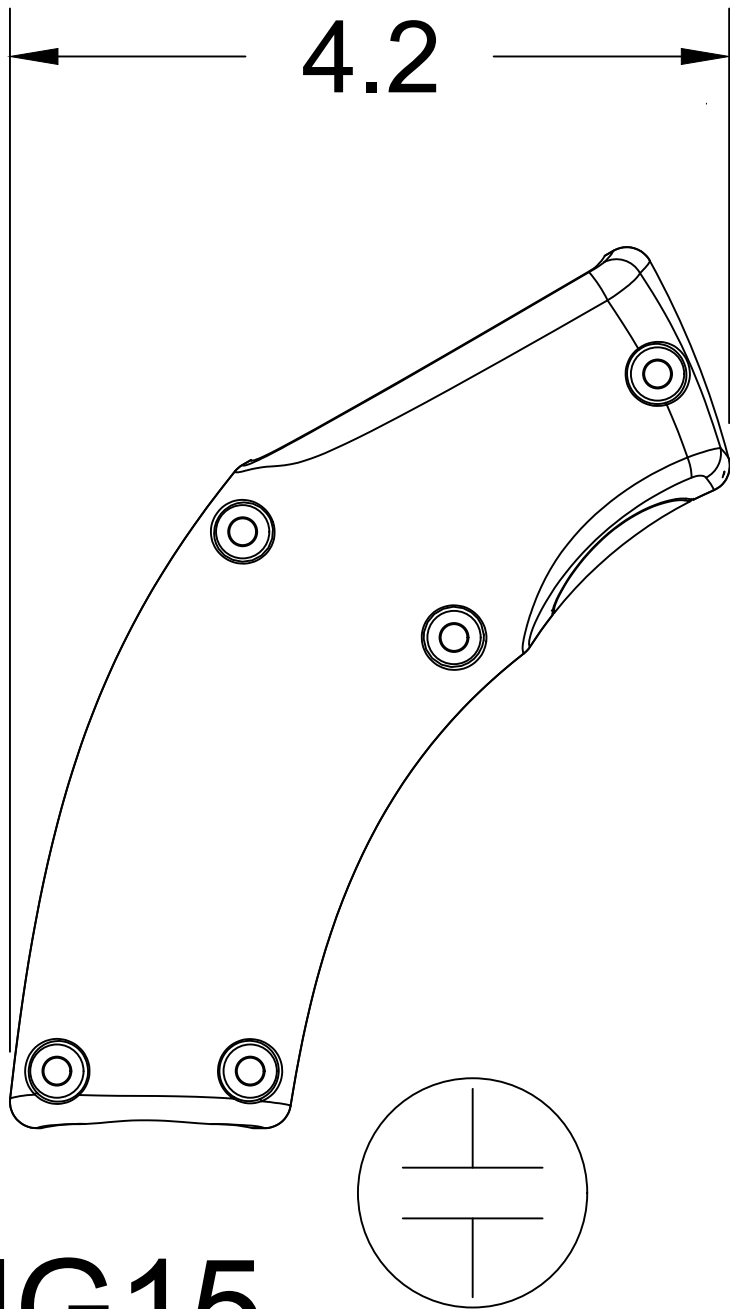
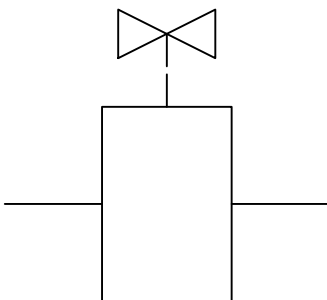
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	D	UPDATED CATALOG AS PER ECN#503	MAH*5/28/20	DDO*7/16/20

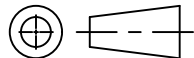


MG4



MG15

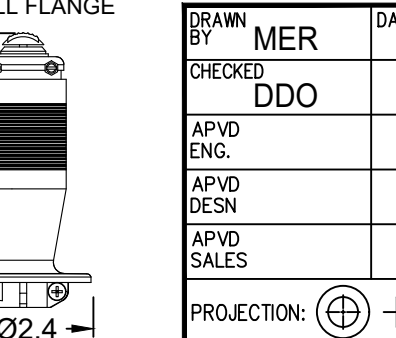
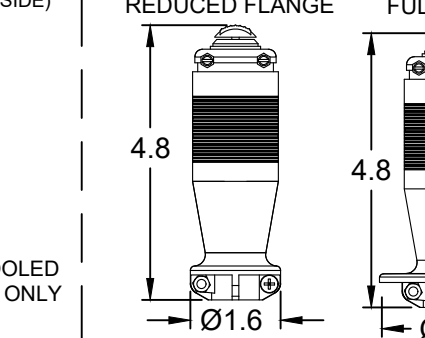
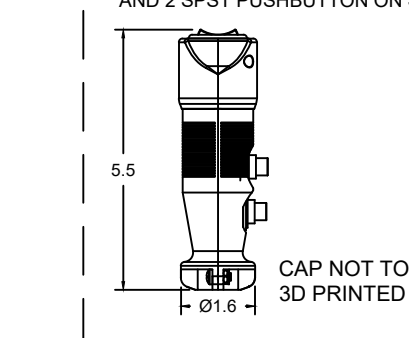
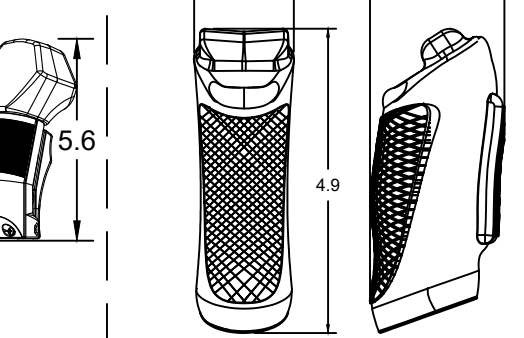
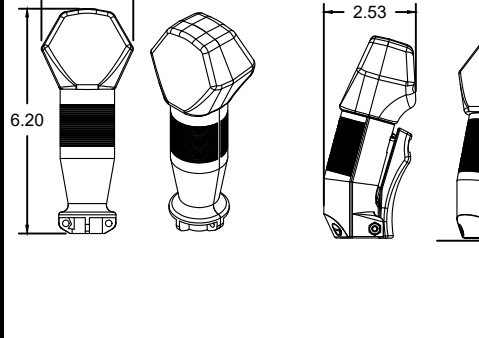
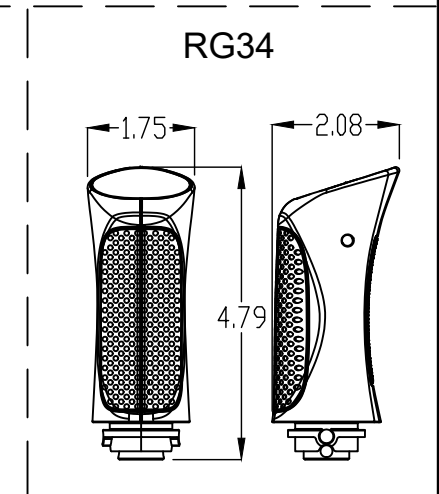
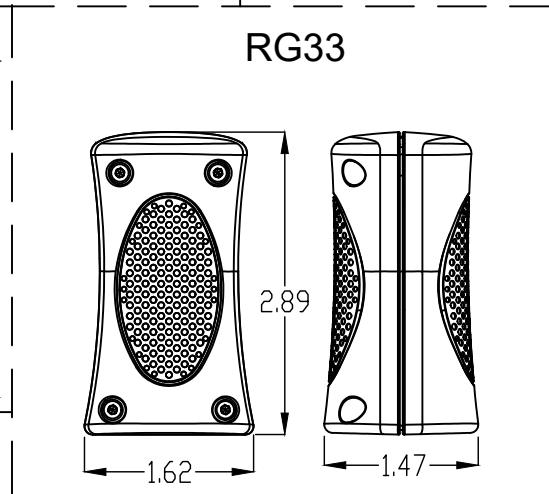
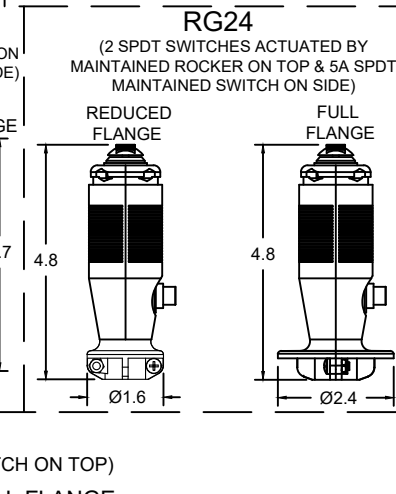
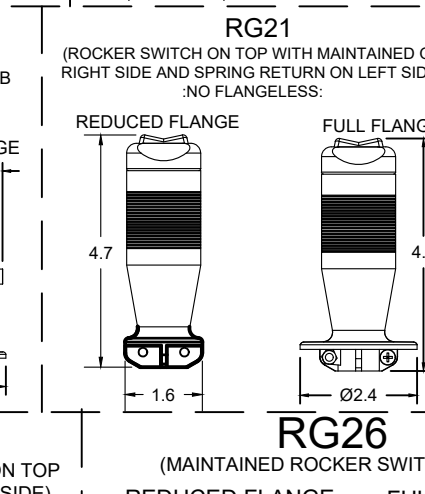
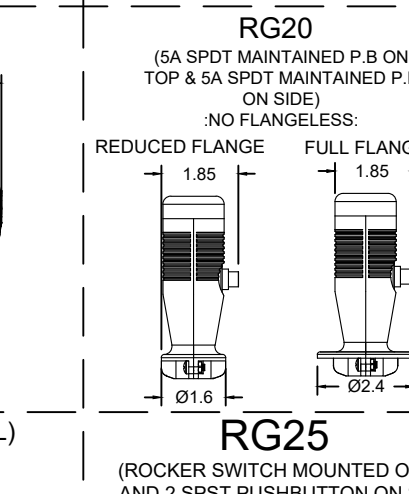
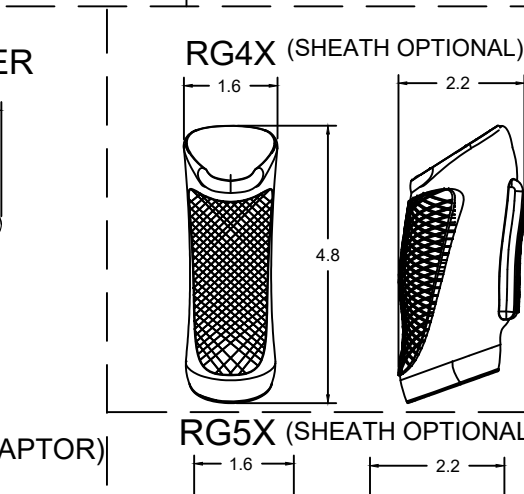
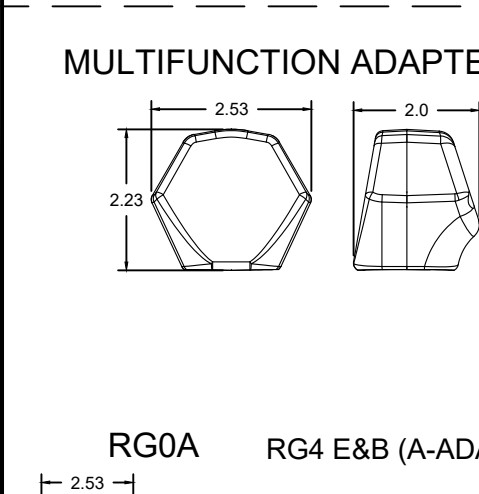
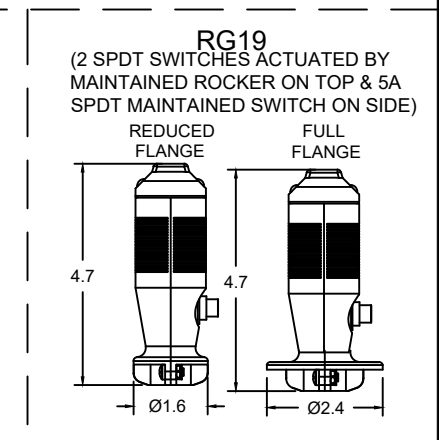
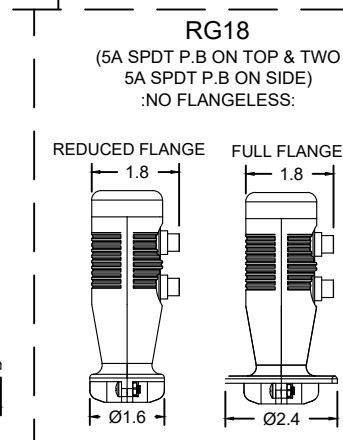
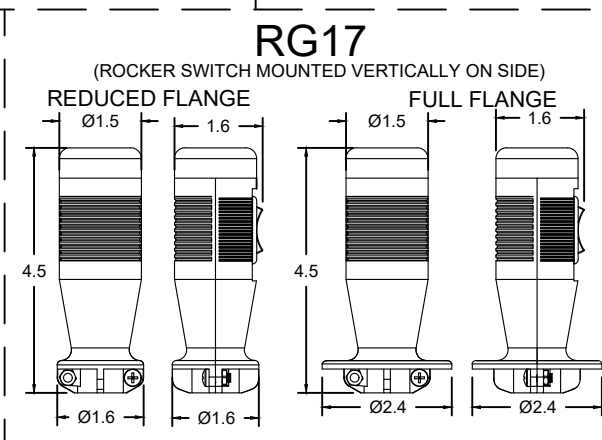
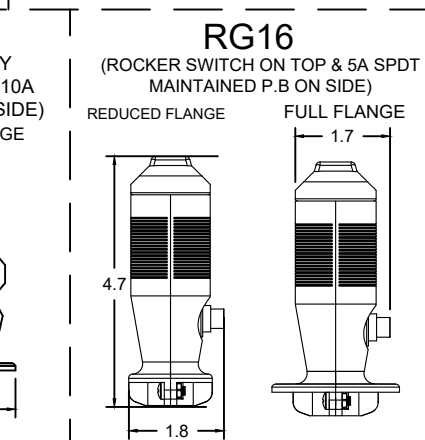
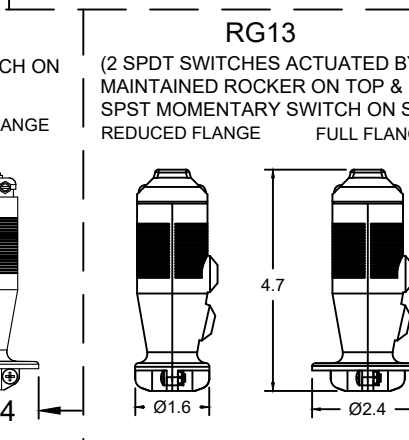
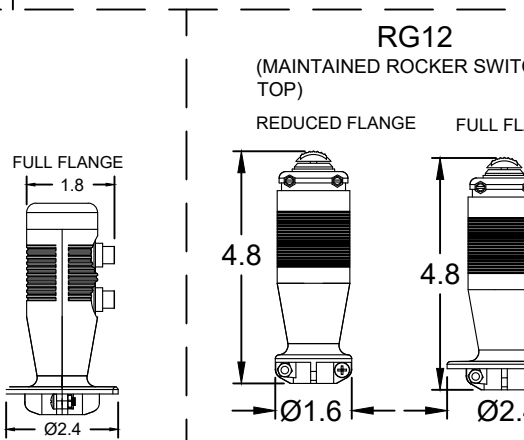
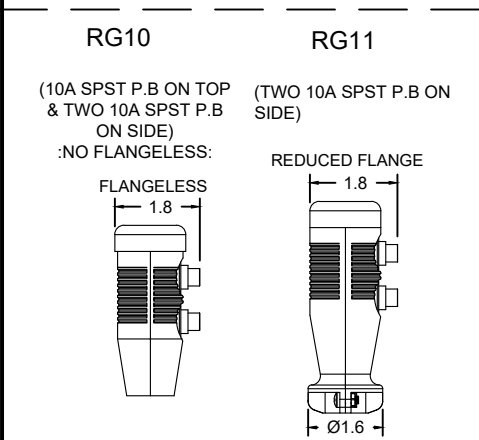
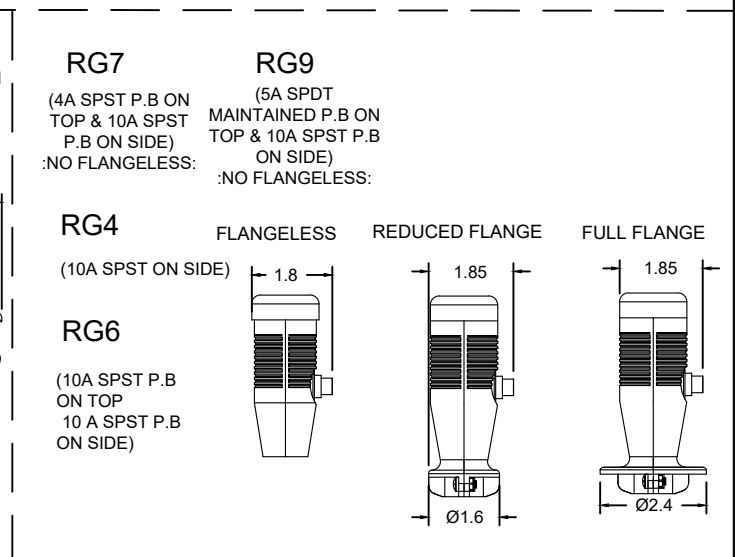
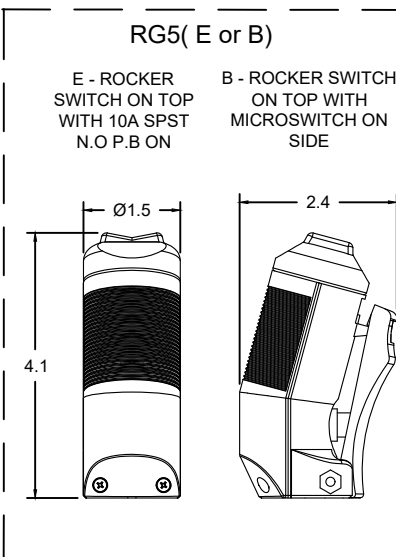
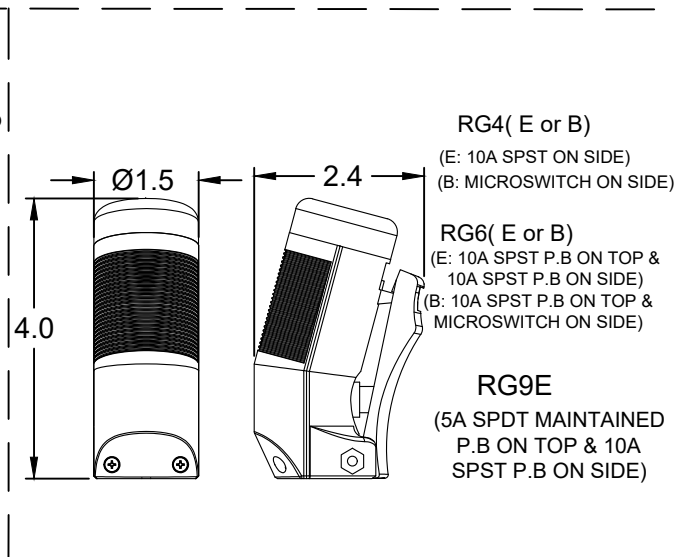
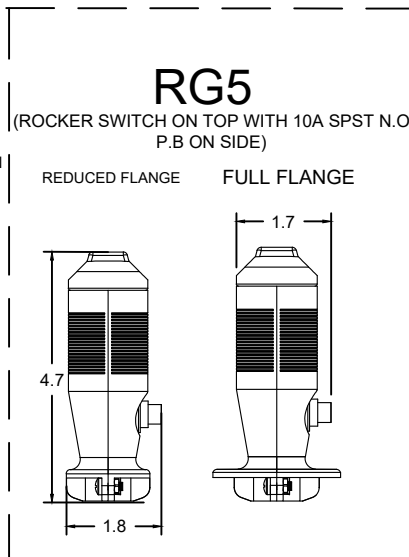
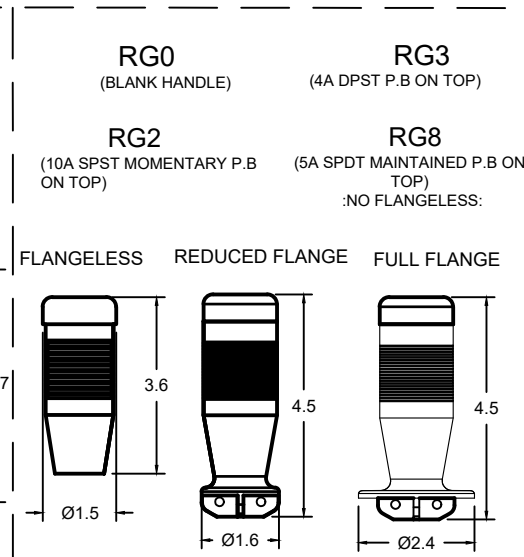
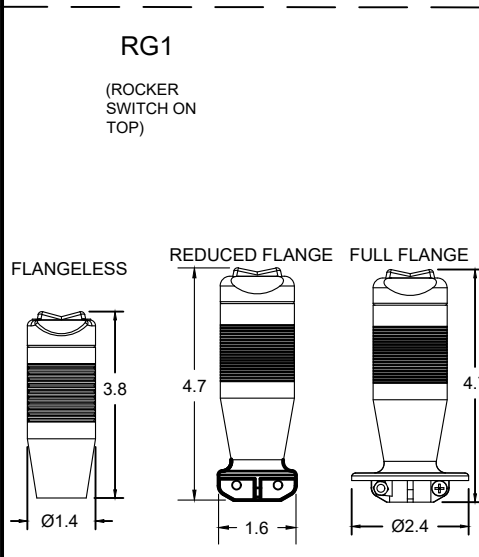


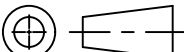
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CHECKED	DDO	5/25/17							
APVD ENG.			PAGE 2 OF 5 HMS8 CATALOG HANDLE OPTIONS						
APVD DESN									
APVD SALES									
PROJECTION: 				PART NO.	DWG NO. B29830	REV	B		
				SCALE NTS	SHEET 2 OF 5	SIZE	B		

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RG5(E or B) E - ROCKER SWITCH ON TOP WITH 10A SPST N.O P.B ON B - ROCKER SWITCH ON TOP WITH MICROSWITCH ON SIDE	RG7 (4A SPST P.B ON TOP & 10A SPST P.B ON SIDE) :NO FLANGELESS: RG6 (10A SPST P.B ON TOP 10 A SPST P.B ON SIDE)
	RG9 (5A SPDT MAINTAINED P.B ON TOP & 10A SPST P.B ON SIDE) :NO FLANGELESS:



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CHECKED DDO	5/25/17			Phone: (203) 929-8431 Fax.: (203) 929-3867	
APVD ENG.		PAGE 3 OF 5 HMS8 CATALOG HANDLE OPTIONS			
APVD DESN					
APVD SALES					
PROJECTION: 			PART NO.	DWG NO. B29830	REV B
			SCALE NTS	SHEET 3 OF 5	SIZE B

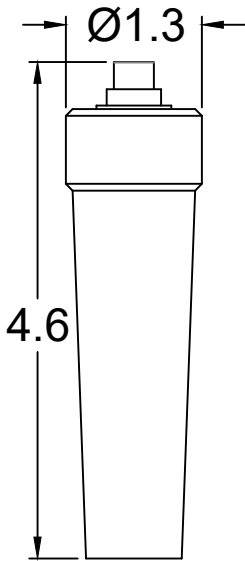
CAP OPTIONS

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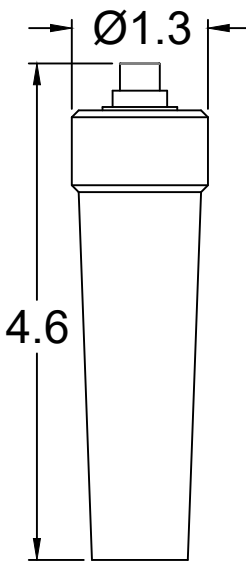
RG22

(SLIMLINE
HANDLE
WITH 5A
SPDT PUSH-
BUTTON
ON TOP)

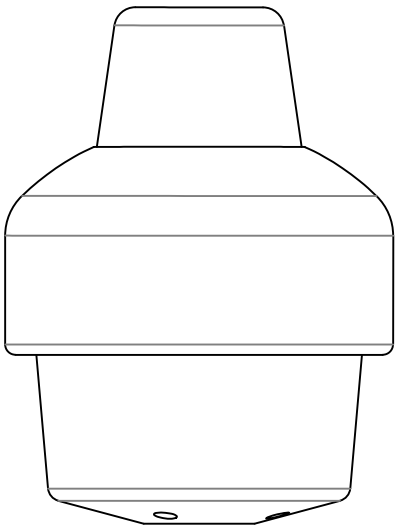


RG23

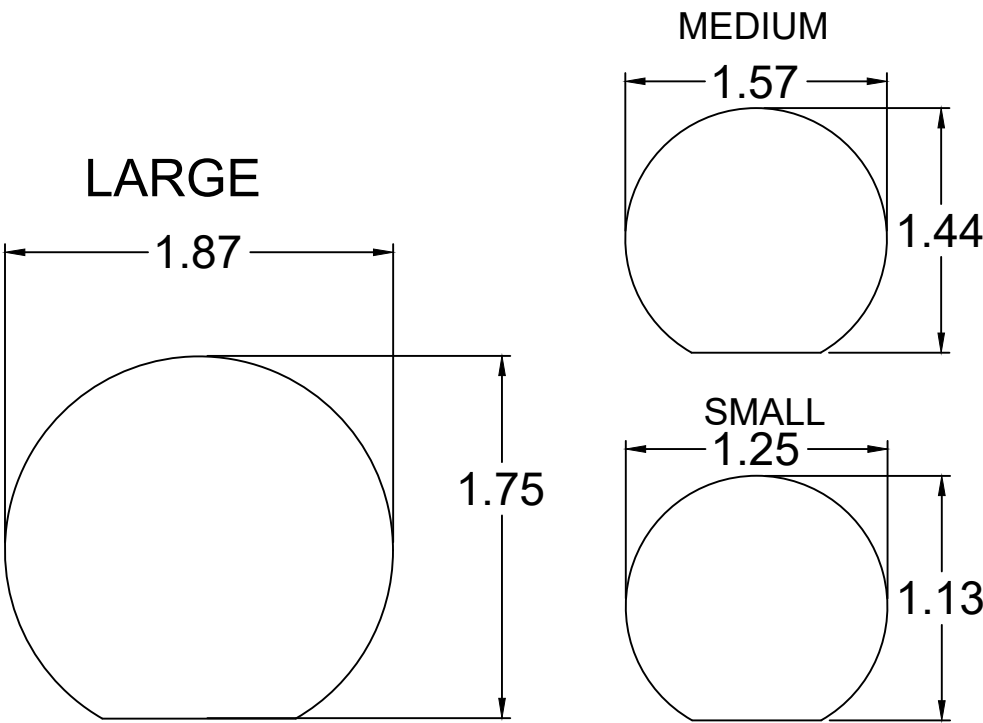
(SLIMLINE
HANDLE
WITH 10A
SPST PUSH-
BUTTON
ON TOP)



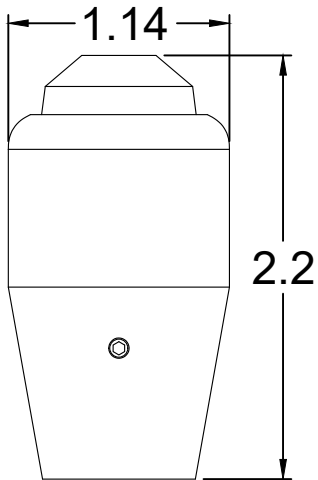
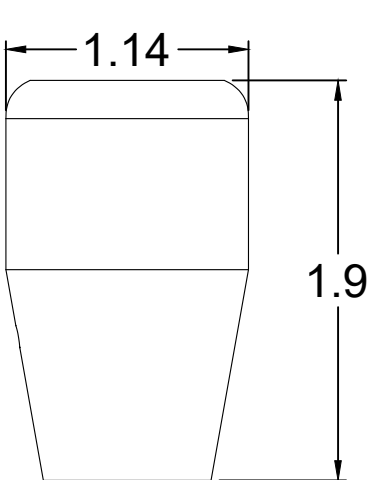
PB CAP

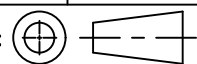


ROUND BALL
(8MM SHAFT ONLY)



SOLID KNOB (8mm
SHAFT ONLY) WITH PUSHBUTTON

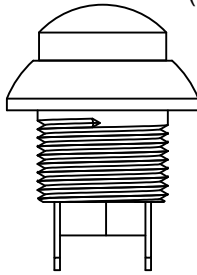


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CHECKED DDO	5/25/17		
APVD ENG.			
APVD DESN			
APVD SALES		PAGE 4 OF 5 HMS8 CATALOG HANDLE OPTIONS	
PROJECTION: 			
PART NO.		DWG NO. B29830	REV B
SCALE NTS		SHEET 4 OF 5	SIZE B

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STANDARD COMPONENTS SHOWN. OTHERS AVAILABLE UPON REQUEST



RAISED DOME PUSHBUTTON (SPST) IP/64

AVAILABLE COLORS

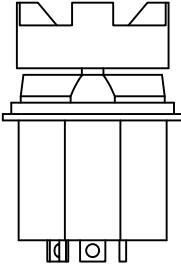
- RED
- BLACK
- YELLOW
- WHITE
- GRAY
- ORANGE
- GREEN
- BLUE



RAISED DOME PUSHBUTTON (SPST) IP/68

AVAILABLE COLORS

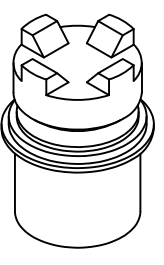
- RED
- BLACK
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- GRAY
- ORANGE
- GREEN
- BLUE

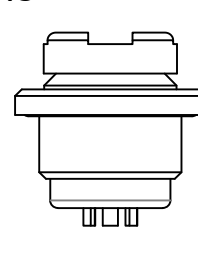


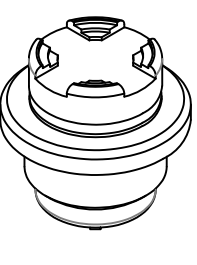
4 WAY ROCKER (ON/OFF DIGITAL)

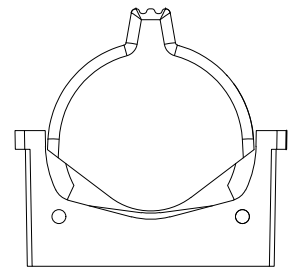
AVAILABLE OPTIONS

- TACTILE
- NO TACTILE

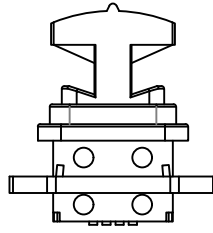




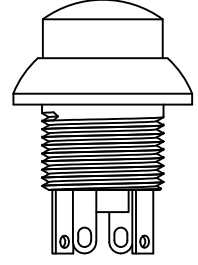




S12 SINGLE PROPORTIONAL



S9 SWITCH SINGLE PROPORTIONAL

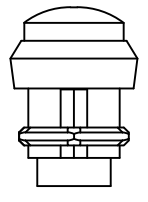


RAISED DOME PUSHBUTTON (SPDT) IP/64

AVAILABLE COLORS

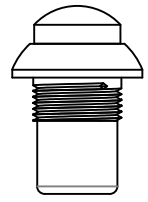
- WHITE
- YELLOW
- GRAY
- ORANGE
- BLUE
- GREEN

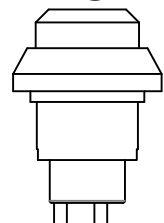
- RED
- BLACK

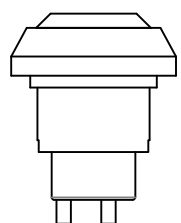


HALL EFFECT (ON/OFF) PUSHBUTTONS

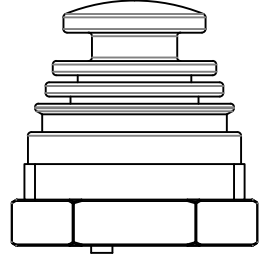
TACTILE/NO TACTILE



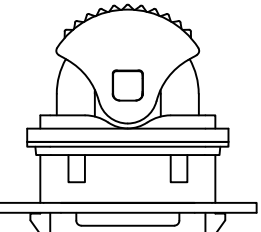




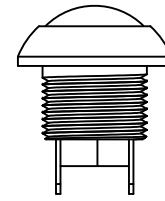
RAISED & FLUSH DOME



JS20 DUAL PROPORTIONAL



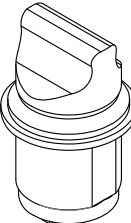
HMS10 SINGLE PROPORTIONAL



FLUSH DOME PUSHBUTTON IP/64

AVAILABLE COLORS

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



ROCKER SWITCHES

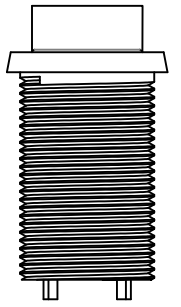
OPTIONS

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



OPTIONS

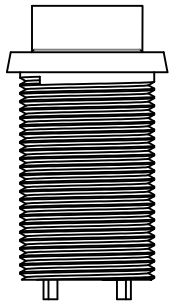
- MOM-OFF-MOM
- MAINT ON-ON
- MAINT ON-OFF-ON



PROPORTIONAL PUSHBUTTON

AVAILABLE COLORS

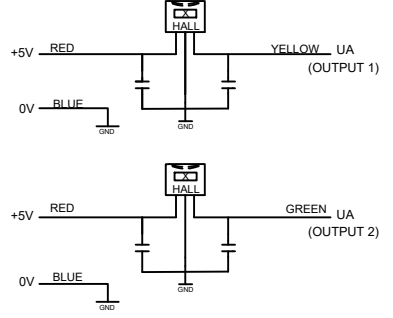
- WHITE
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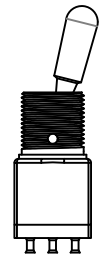


DUAL PROPORTIONAL

OUTPUT 1: 0.5V - 4.5V

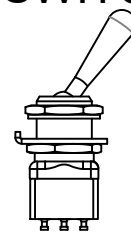
OUTPUT 2: 4.5V - 0.5V



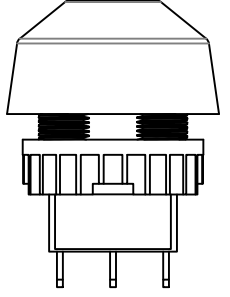


TOGGLE SWITCHES

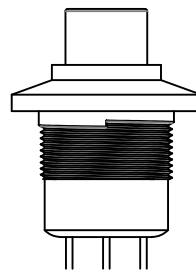
MOM-OFF-MOM







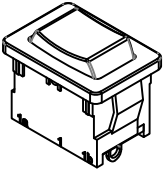
PUSHBUTTON WITH MINI MICRO



MAINTAINED PUSHBUTTON

AVAILABLE COLORS

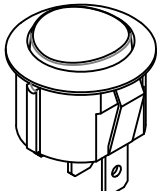
- BLACK
- WHITE



ROCKER SWITCHES

OPTIONS

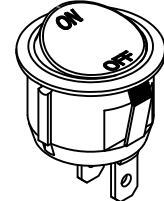
- MOM-OFF-MOM
- MAINT-OFF-MAINT



OPTIONS

- MOM-OFF-MOM
- MA-OFF-MA

GREEN AND RED LED AVAILABLE



OPTIONS

- ON-OFF

DRAWN BYMER

CHECKEDDDO

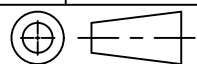
APVD ENG.

APVD DESN

APVD SALES

DATE4/6/17

5/25/17



1



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

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HMS8 CATALOG

HANDLE COMPONENT OPTIONS

PART NO.

DWG NO. B29830

REV B

SCALE NTS

SHEET 5 OF 5

SIZE B