DWG. NO. B31384 | SHT. 1 | REV. C

MECHANICAL OPTIONS

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	C	UPDATED TO SHOW THUMPER SOLENOID PER ECN #503	MAH*6/3/20	

HANDLE OPERATION	
A-B AXIS	C-D AXIS
SPRING RETURN PARK POSITION	FRICTION HOLD

GATE OPTIONS

CROSS GATE

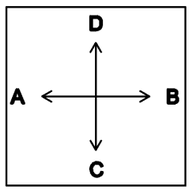
SINGLE AXIS

SIMULTANEOUS

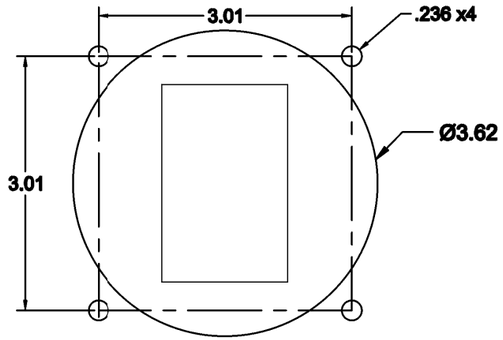
SPECIAL

EXAMPLES

Handle Travel Direction



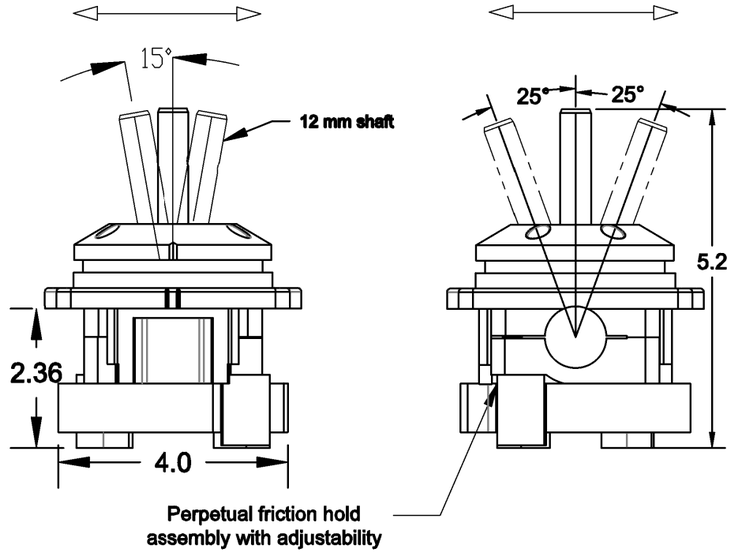
MOUNTING DIMENSION



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

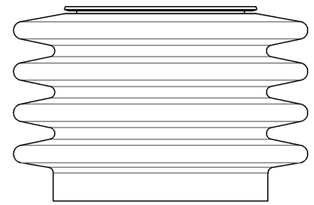
PARK POSITION TRAVEL
LEFT OR RIGHT
X-AXIS (A-B)

MAX TRAVEL
Y-AXIS (C-D)

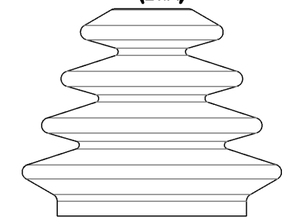


BOOT OPTIONS

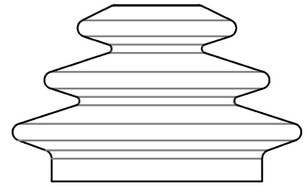
BOOT FOR MG1, 2, 3, 8, 12 (L&R), 25 (L&R), 26 (L&R)



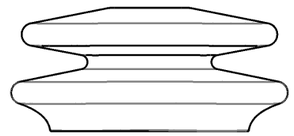
STANDARD BOOT FOR KNOB MG5, MG6, MG7,MG9, MG10 MG10 (L&R), MG11, MG15, MG15 (L&R), MG16, MG23 (L&R)



3 CONVOLUTION OPTION FOR SHORT SHAFT



2 CONVOLUTION OPTION FOR SHORT SHAFT



Protective housing cover available with all boot options

ELECTRICAL CONFIGURATIONS

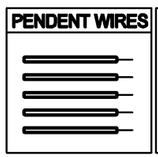
Name	Power Supply Range	Output Type	#Digital Inputs	#Analog Inputs	#Sourcing Digital Outputs	#Sinking Digital Outputs (thumper)	Handle Multiplex (Mux) Interface	Friction Hold Capable	ID Resistor Capable	Notes
V24	9V - 32V	CAN Open (DS401), J1939	8*	4*	1	0	Yes	Yes	No	*Four digital-only inputs plus four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

Wiring Options: Pendent wires (6-12" Std) with Deutsch connectors, AMP connectors standard or Customer Specific.

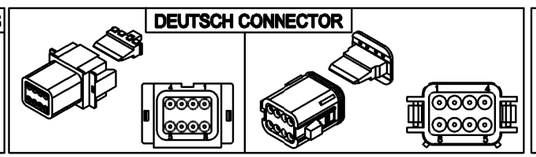
Power Supply Range	Output Type	#Digital Inputs	#Digital Outputs	#Analog Outputs	Analog Output Range	Ratiometric Output Capable	Friction Hold Capable	Notes
9V - 32V	Voltage Output	2	4	1	0V to Vbat - 1V*	NO	Yes	*Actual Output values and curve shape set by software. Analog Output tolerances per chart on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

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

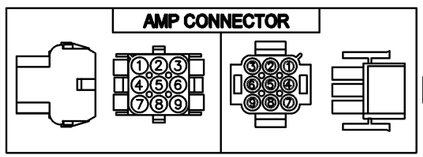
PENDENT WIRES



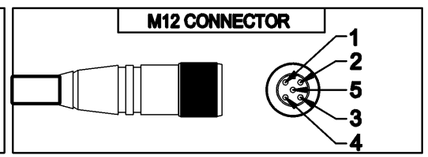
DEUTSCH CONNECTOR



AMP CONNECTOR



M12 CONNECTOR



DRAWN BY MER	DATE 3/22/17	OEM CONTROLS	10 Controls Drive – Shelton, CT 06484 Phone: (203) 929-8431 Fax.: (203) 929-3867
CHECKED DDO	3/29/17	PAGE 1 OF 3 JS24 CATALOG MECHANICAL	
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:	1 1	PART NO.	DWG NO. B31384 REV C
		SCALE NTS	SHEET 1 OF 3 SIZE B

DWG. NO. B31384 | SHT. 2 | REV. C

MG HANDLE OPTIONS

FOR 10 & 12 MM SHAFT

ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE STATED

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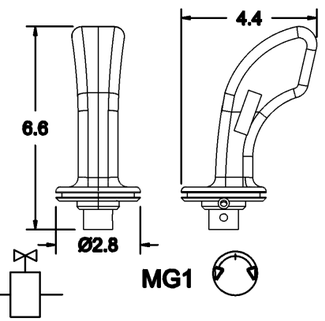
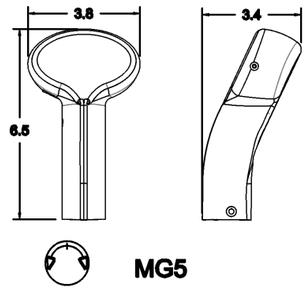
REVISIONS

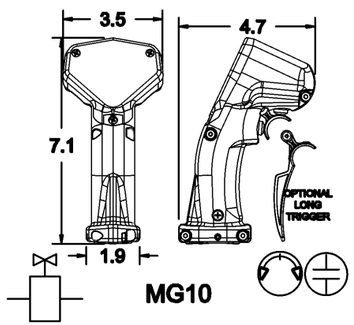
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	C	UPDATED CATALOG AS PER ECN#503	MAH*6/3/20	



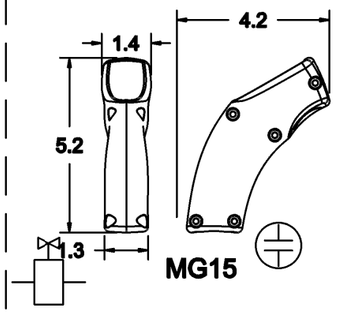
MG1



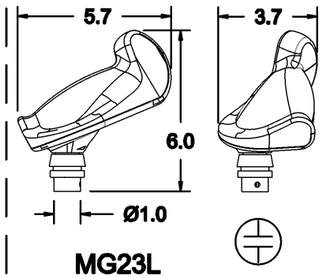
MG5



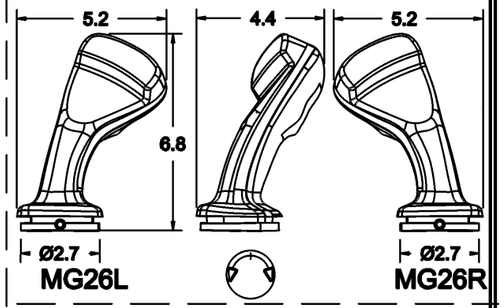
MG10



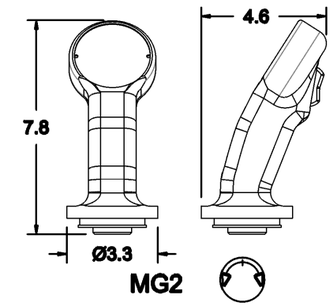
MG15



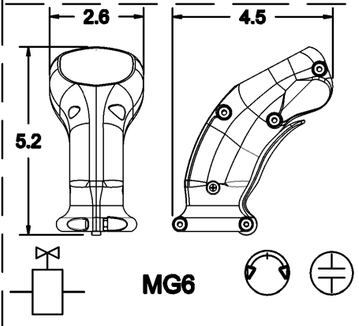
MG23L MG23R



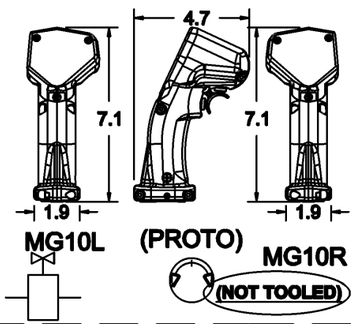
MG26L MG26R



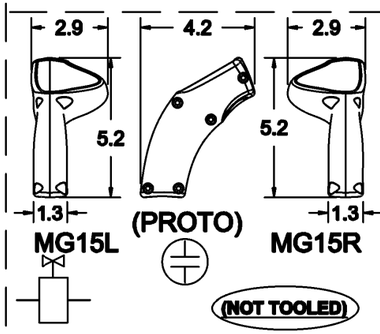
MG2



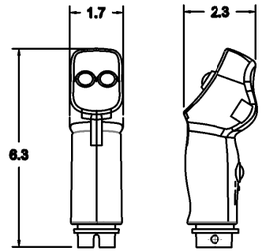
MG6



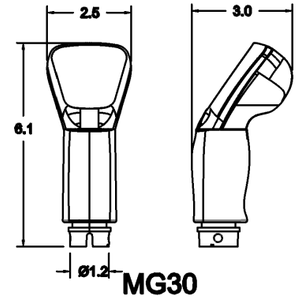
MG10L (PROTO) MG10R
(NOT TOOLED)



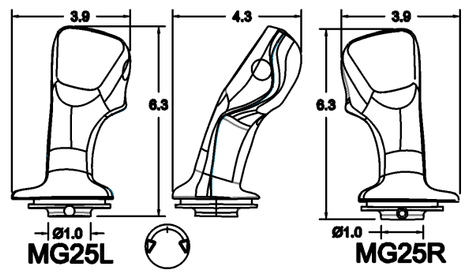
MG15L (PROTO) MG15R
(NOT TOOLED)



MG24



MG30



MG25L MG25R

CAPACITOR HAND SENSOR

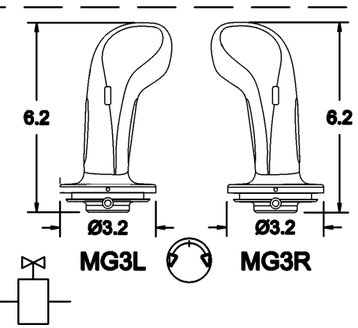
AVAILABLE ON SOME MG HANDLES:

THUMPER SOLENOID

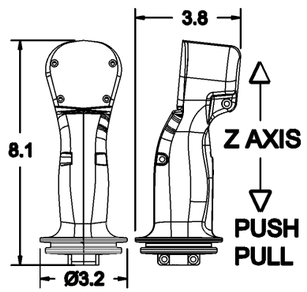
Z AXIS TWIST 60°

AVAILABLE ON MOST MG HANDLES:

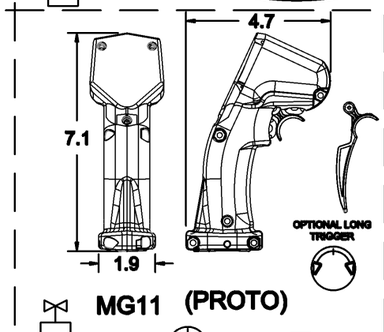
MG32



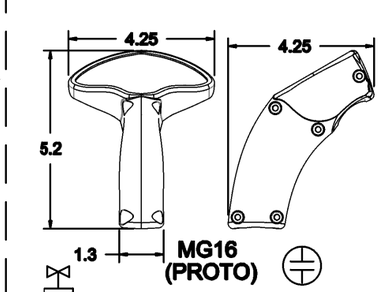
MG3L MG3R



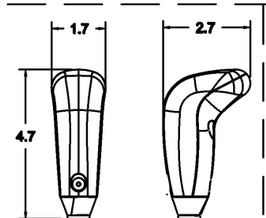
MG8



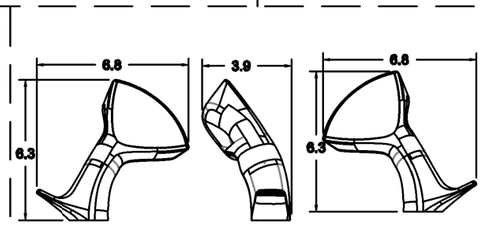
MG11 (PROTO)
(NOT TOOLED)



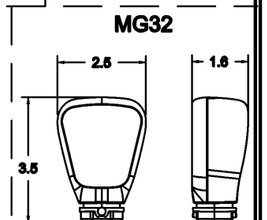
MG16 (PROTO)
(NOT TOOLED)

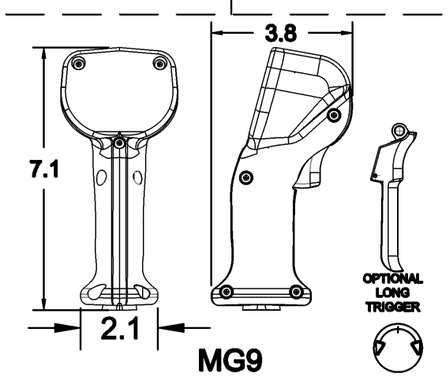


MG28

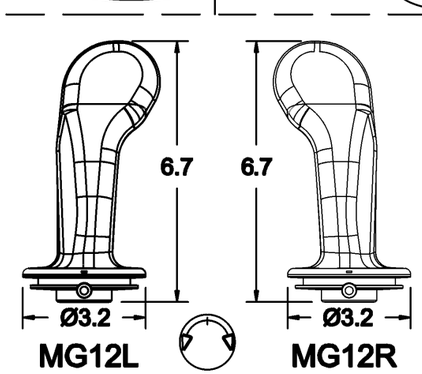


MG31L MG31R





MG9



MG12L MG12R

DRAWN BY MER	DATE 3/22/17	OEM CONTROLS	10 Controls Drive – Shelton, CT 06484 Phone: (203) 929-8431 Fax.: (203) 929-3867
CHECKED DDO	3/29/17	PAGE 2 OF 3 JS24 CATALOG HANDLE OPTIONS	
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:	1/1	PART NO.	DWG NO. B31384 REV C
		SCALE NTS	SHEET 2 OF 3 SIZE B

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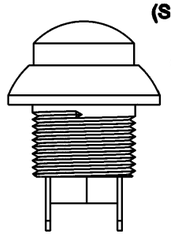
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	D	UPDATED CATALOG AS PER ECN#503	MAH*3/11/20	DDO*4/23/2

STANDARD COMPONENTS SHOWN. OTHERS AVAILABLE UPON REQUEST

RAISED DOME PUSHBUTTON (SPST) IP/64



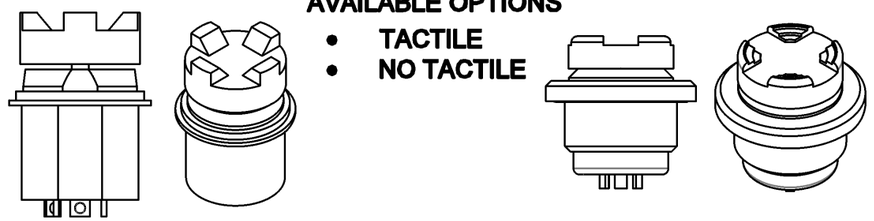
AVAILABLE COLORS
- RED
- BLACK
- YELLOW
- WHITE
- GRAY
- ORANGE
- GREEN
- BLUE

RAISED DOME PUSHBUTTON (SPST) IP/68

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

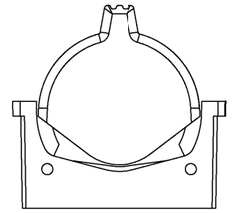
4 WAY ROCKER (ON/OFF DIGITAL)

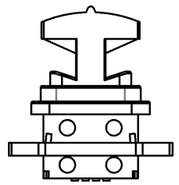
AVAILABLE OPTIONS
- TACTILE
- NO TACTILE



OTHER OPTIONS

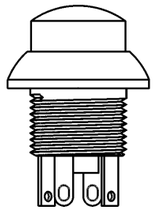
S12 SINGLE PROPORTIONAL





S9 SWITCH SINGLE PROPORTIONAL

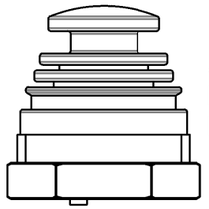
RAISED DOME PUSHBUTTON (SPDT) IP/64



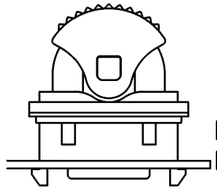
AVAILABLE COLORS
- WHITE
- YELLOW
- GRAY
- ORANGE
- BLUE
- GREEN
- RED
- BLACK

HALL EFFECT (ON/OFF) PUSHBUTTONS

HALL EFFECT | TACTILE/NO TACTILE | RAISED & FLUSH DOME

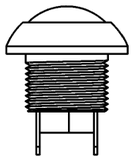


JS20 DUAL PROPORTIONAL



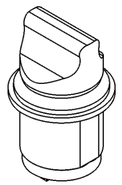
HMS10 SINGLE PROPORTIONAL

FLUSH DOME PUSHBUTTON IP/64



AVAILABLE COLORS
- YELLOW
- RED
- BLUE
- GREEN
- BLACK
- ORANGE

ROCKER SWITCHES



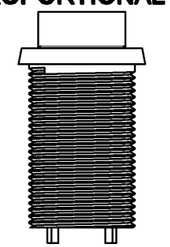
OPTIONS
- MOM-OFF-MOM
- MAINT ON-ON
- MAINT ON-OFF-ON

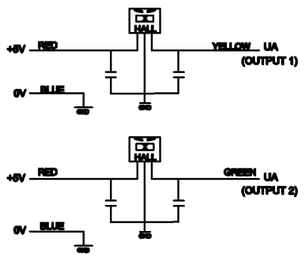
OPTIONS
- MOM-OFF-MOM
- MAINT ON-ON
- MAINT ON-OFF-ON

PROPORTIONAL PUSHBUTTON

AVAILABLE COLORS
- WHITE
- BLACK

DUAL PROPORTIONAL

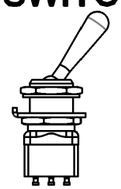




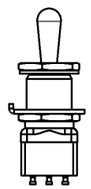
OUTPUT 1: 0.5V - 4.5V
OUTPUT 2: 4.5V - 0.5V

TOGGLE SWITCHES

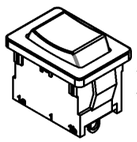
MOM-OFF-MOM



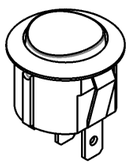
MAINT ON-ON



MAINT ON-OFF-ON



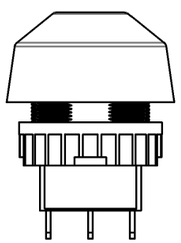
OPTIONS
- MOM-MOM
- MAINT-OFF-MAINT



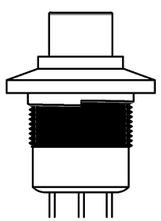
OPTIONS
- MOM-OFF-MOM
- MA-OFF-MA

GREEN AND RED LED AVAILABLE

OPTIONS
- ON-OFF



PUSHBUTTON WITH MINI MICRO



MAINTAINED PUSHBUTTON

AVAILABLE COLORS
- BLACK
- WHITE

DRAWN BY MER	DATE 3/22/17	OEM CONTROLS	10 Controls Drive – Shelton, CT 06484 Phone: (203) 929-8431 Fax.: (203) 929-3867
CHECKED DDO	3/29/17	PAGE 3 OF 3 JS24 CATALOG HANDLE COMPONENT OPTIONS	
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:	1 / 1	PART NO.	DWG NO. B31384 REV C
		SCALE NTS	SHEET 5 OF 5 SIZE B