

MECHANICAL OPTIONS

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REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	C	S12 ADDED PER ECN#28913	MER*5/3/17

HANDLE OPERATION

A-B AXIS C-D AXIS

SPRING RETURN

HEAVY DUTY SPRING RETURN

LIGHT SPRING RETURN

FRICTION HOLD & DETENT

DETENT

A-B AXIS C-D AXIS

CENTER

1 - 5 POSITION SPECIAL

GATE OPTIONS

CROSS GATE 

SINGLE AXIS 

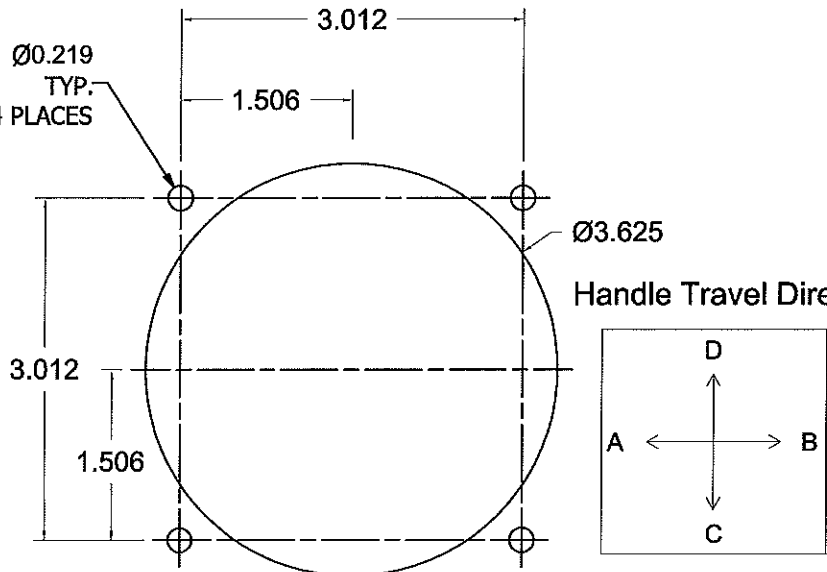
SIMULTANEOUS 

SPECIAL 

EXAMPLE'S

MOUNTING DIMENSION



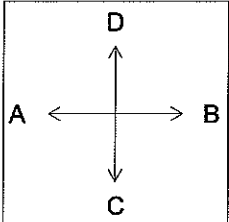
Ø0.219 TYP. 4 PLACES

3.012

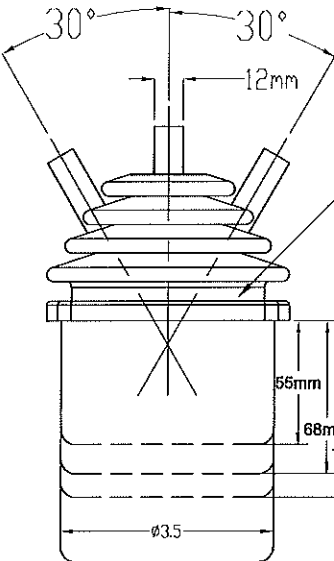
1.506

Ø3.625

Handle Travel Direction



FOR MG HANDLES



30°

30°

12mm

STANDARD 30° GATE

ENCLOSURE (CAN) LENGTHS

55mm: LO PROFILE- HALL OR CAN ONLY

68mm: STANDARD

75mm: F/H, DETENT

103mm: DUAL PCB & POTENTIOMETERS

55mm

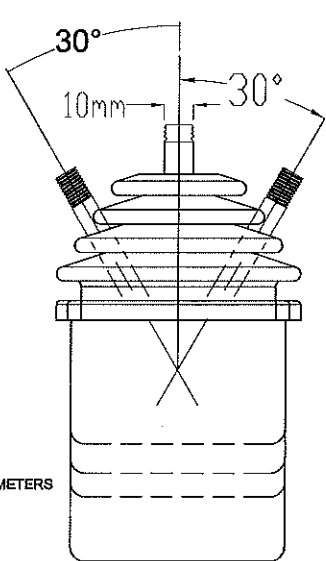
68mm

75mm

103mm

Ø3.5

FOR ROUND BALL, KNOB, AND RG HANDLES



30°

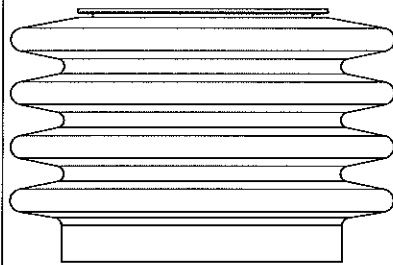
10mm

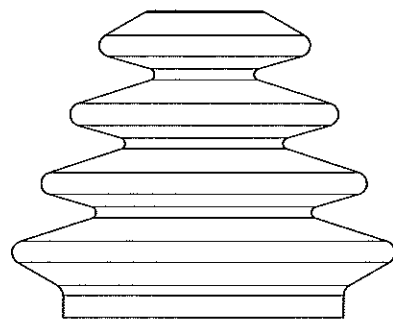
30°

BOOT OPTIONS

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

MG HANDLE BOOT





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
OCI-31	9V - 32V	CAN Open (DS401), J1939	15*	5*	0	1	Yes	No	Yes	*Ten digital-only inputs plus five inputs that are either digital or analog
OCI-8	9V - 32V	CAN Open (DS401), J1939	6*	3*	2	0	Yes	Yes	Yes	*Three digital only inputs plus three inputs that are either digital or analog
OCI-5	9V - 32V	CAN Open (DS401), J1939	4	3*	4	1	No	No	Yes	*Analog inputs read a maximum voltage of 5V
OCI-3	9V - 32V	CAN Open (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, and plus one that is either digital or analog

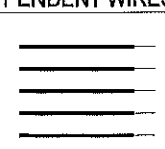
Wiring Options: Pendent wires (6-12" Std) with Deutsch connectors, AMP connectors standard or Customer Specific. Direct can enclosure mount: 75mm or 103mm only Deutsch or AMP Std.

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	2	0V to Vbat - 1V*	Yes	Yes	*Actual Output values and curve shape set by software. Analog Output tolerances per chart on right.
9V - 30V	Voltage Output	2	4	2	0V to Vbat - 1V*	Yes	No	
9V - 32V	Voltage Output	2	2	2	-10V to +10V	No	No	
4.8V - 5.5V	Voltage Output	0	0	2	0V to Vbat -0.1V*	Yes	Yes	
9V - 30V	PLC Current Output	0	4	2	4mA to 20mA*	No	No	

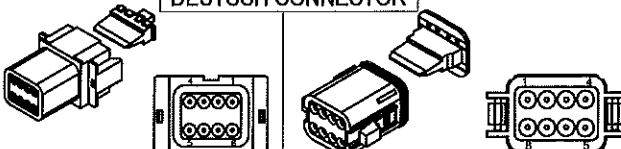
Specs:
IP rating: IP67
Temperature Rating:-40 TO 60°C
Mechanical life:10 million cycles
Max load: 300 lb *Tested with 12mm shaft
EMC test per EN61000-4-3:2006 and ISO 11452-2

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

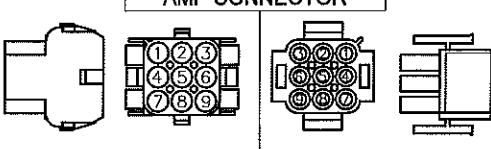
PENDENT WIRES



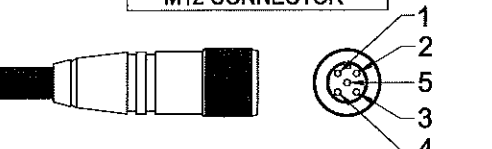
DEUTSCH CONNECTOR



AMP CONNECTOR



M12 CONNECTOR



DRAWN BY 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

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HJS8 CATALOG

MECHANICAL

PART NO.

DWG NO. B29390

REV C

SCALE NTS

SHEET 1 OF 3

SIZE B

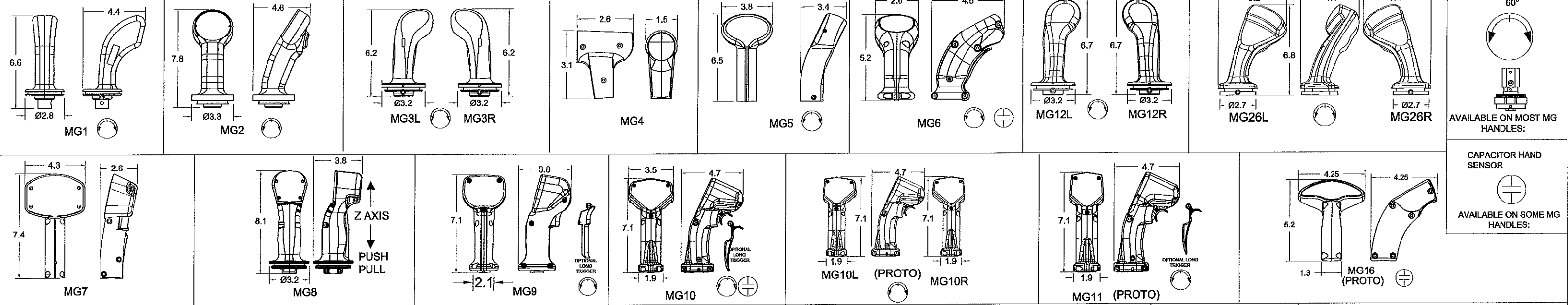
MG HANDLE OPTIONS

ALL DIMENSIONS SHOWN ARE IN INCHES UNLESS OTHERWISE STATED

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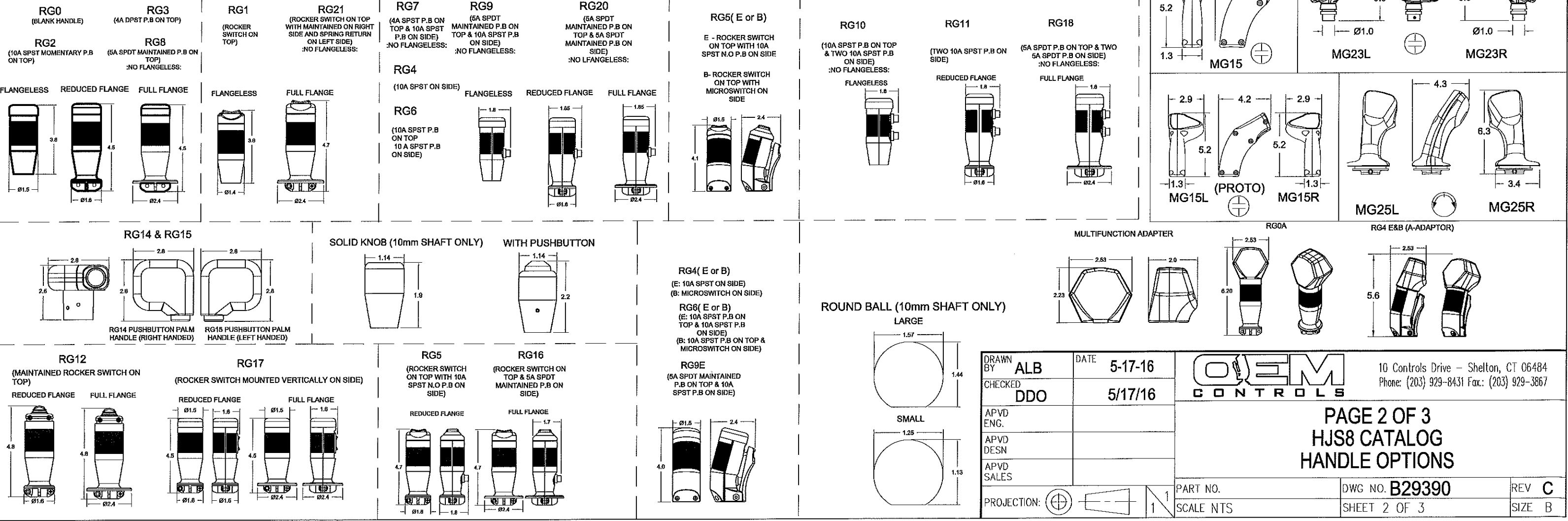
REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
-	C	S12 ADDED PER ECN#28913	MER*5/3/17	



RG HANDLE OPTIONS

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



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REVISIONS				
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	C	S12 ADDED PER ECN#28913	MER*5/3/17	<i>[Signature]</i>

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

OTHER OPTIONS

S12 SWITCH

PUSHBUTTON WITH MINI MICRO

RAISED DOME PUSHBUTTON (SPDT)

AVAILABLE COLORS

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

HALL EFFECT (ON/OFF) PUSHBUTTONS

HALL EFFECT

TACTILE/NO TACTILE

RAISED & FLUSH DOME

JS20 (SEE MAIN CATALOG)

FLUSH DOME PUSHBUTTON

AVAILABLE COLORS

- YELLOW
- RED
- BLUE
- GREEN
- BLACK

ROCKER SWITCHES

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

TOGGLE SWITCHES

MOM-OFF-MOM

MAINT ON-ON

MAINT ON-OFF-ON

HMS10 (SEE MAIN CATALOG)

MAINTAINED PUSHBUTTON

AVAILABLE COLORS

- BLACK
- WHITE

DRAWN BY	ALB	DATE	5-17-16
CHECKED	DDO		5/17/16
APVD ENG.			
APVD DESN			
APVD SALES			
PROJECTION:			

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

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HJS8 CATALOG
HANDLE COMPONENT OPTIONS

PART NO.	DWG NO. B29390	REV C
SCALE NTS	SHEET 3 OF 3	SIZE B