



**HJS8 DUAL AXIS
CONTACTLESS CONTROLLER
DATA SHEET**

MECHANICAL OPTIONS

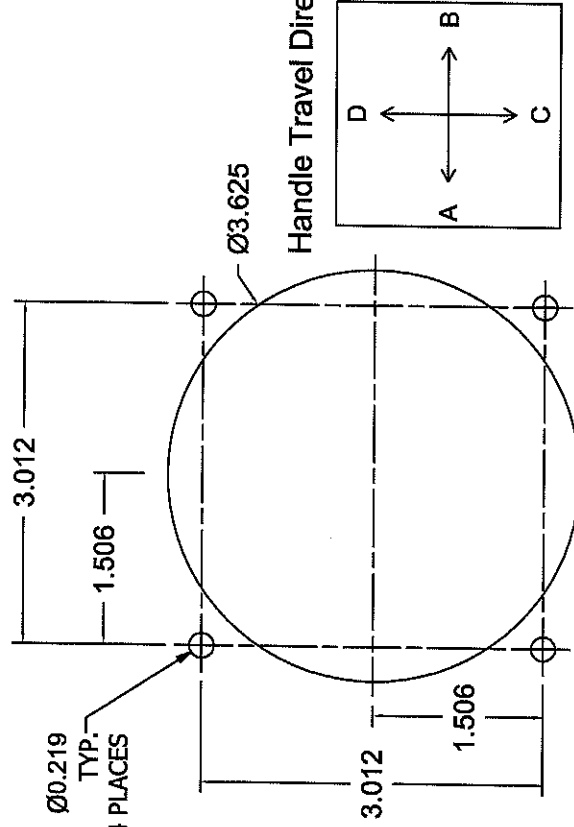
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REVISIONS

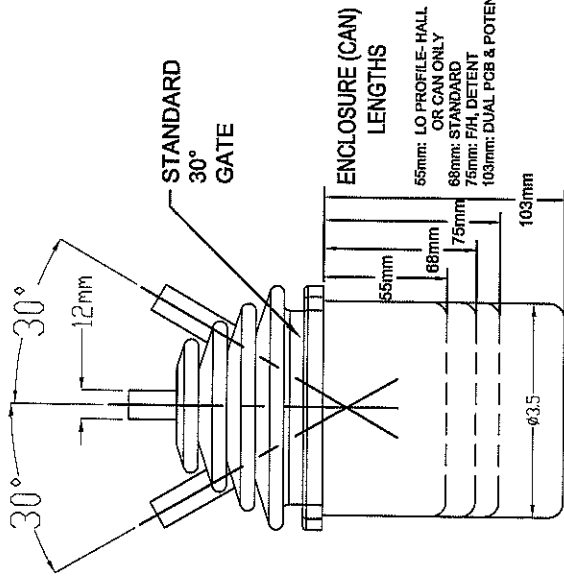
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL	ALB 5-17-16	

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	
EXAMPLES	
(Z)	(H) (T)

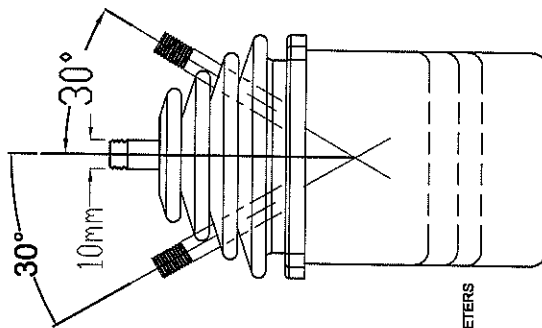
MOUNTING DIMENSION



FOR MG HANDLES



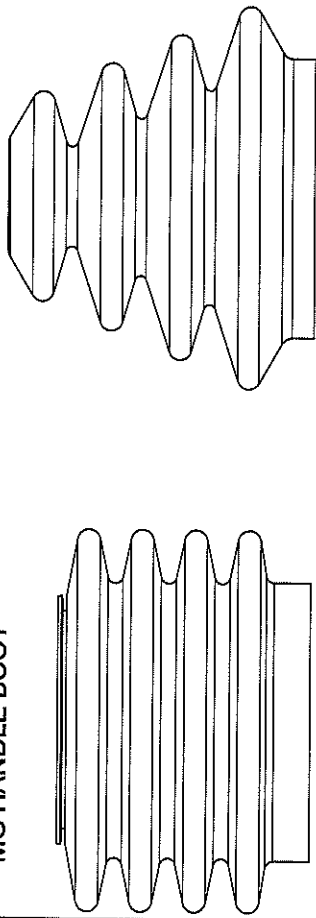
FOR ROUND BALL, KNOB, AND RG HANDLES



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

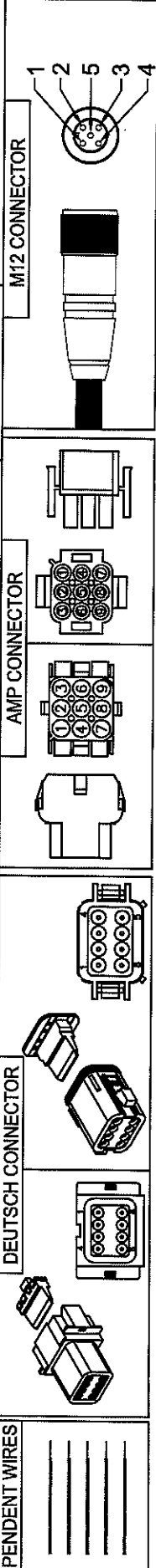


ELECTRICAL CONFIGURATIONS

Name	Power Supply Range	Output Type	#Digital Inputs	#Analog Inputs	#Sourcing Digital Outputs	#Sinking Digital Outputs (thumper)	Handle Multiplex 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: Pendant 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	



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

Specs:
IP Rating: enclosure IP54, electrical IP 67
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

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

OEM
CONTROLS

PAGE 1 OF 3
HJS8 CATALOG
MECHANICAL

DRAWN BY: ALB
CHECKED: [blank]
APVD ENG: [blank]
APVD DESN: [blank]
APVD SALES: [blank]

DATE: 5-17-16

PROJECTION: [blank]

PART NO. [blank]
DWG NO. B29390
SHEET 1 OF 3

REV A
SIZE B

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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	A	ORIGINAL	ALB*5-17-16	

[illegible]

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

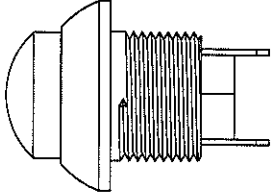
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STANDARD COMPONENTS SHOWN. OTHERS AVAILABLE UPON REQUEST

RAISED DOME PUSHBUTTON

(SPST)

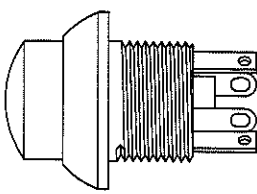


AVAILABLE COLORS

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

RAISED DOME PUSHBUTTON

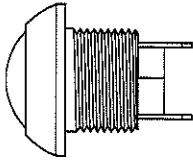
(SPDT)



AVAILABLE COLORS

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

FLUSH DOME PUSHBUTTON



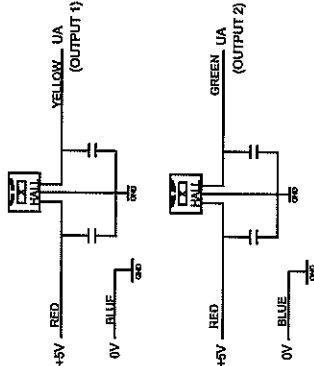
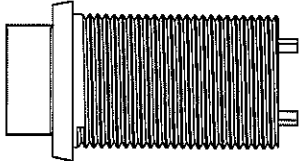
AVAILABLE COLORS

- YELLOW
- RED
- BLUE
- GREEN
- BLACK

PROPORTIONAL PUSHBUTTON

AVAILABLE COLORS

- WHITE
- BLACK

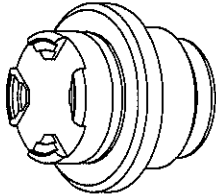
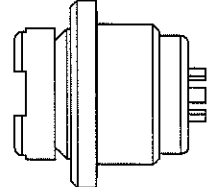
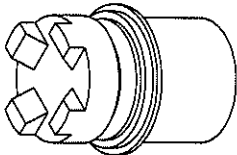
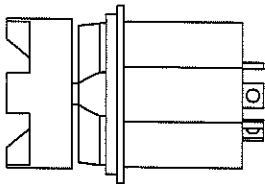


OUTPUT 1: 0.5V - 4.5V
OUTPUT 2: 4.5V - 0.5V

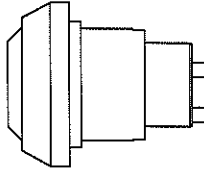
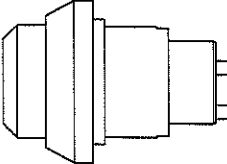
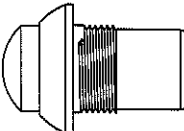
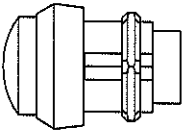
4 WAY ROCKER

AVAILABLE OPTIONS

- TACTILE
- NO TACTILE



HALL EFFECT PUSHBUTTONS

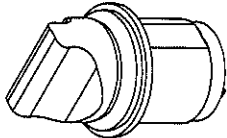


HALL EFFECT

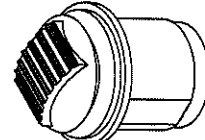
TACTILE/NO TACTILE

RAISED & FLUSH DOME

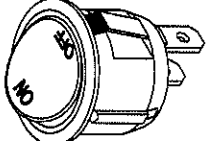
ROCKER SWITCHES



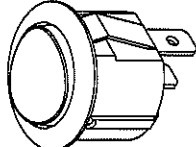
OPTIONS
• MOM-OFF-MOM
• MAINT ON-ON
• MAINT ON-OFF-ON



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

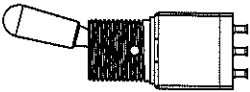


OPTIONS
• ON-OFF

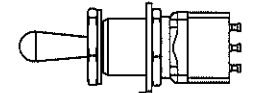


OPTIONS
• MOM-OFF-MOM
• MA-OFF-MA
GREEN AND RED LED
AVAILABLE

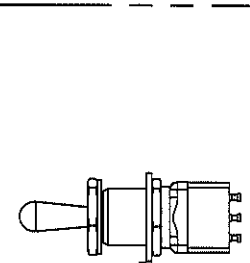
TOGGLE SWITCHES



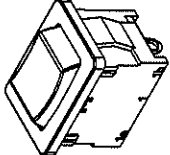
MOM-OFF-MOM



MAINT ON-ON

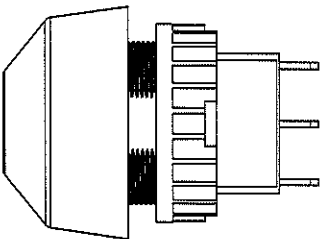


MAINT ON-OFF-ON

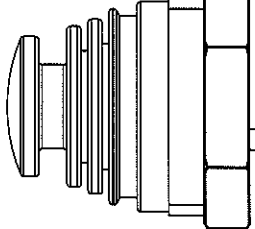


OPTIONS
• MOM-MOM
• MAINT-OFF-MAINT

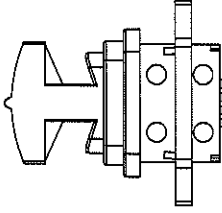
OTHER OPTIONS



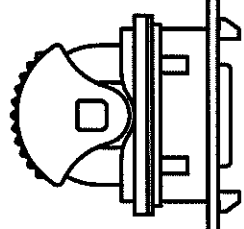
PUSHBUTTON
WITH MINI
MICRO



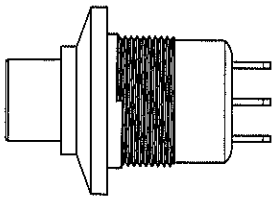
JS20 (SEE
MAIN
CATALOG)



S9 SWITCH
(SEE MAIN
CATALOG)



HMS10 (SEE
MAIN CATALOG)



MAINTAINED PUSHBUTTON

AVAILABLE COLORS

- BLACK
- WHITE



10 Controls Drive - Shelton, CT 06484
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PAGE 3 OF 3
HJS8 CATALOG
HANDLE COMPONENT OPTIONS

DRAWN BY ALB
CHECKED

DATE 5-17-16

APVD ENG.
APVD DESN
APVD SALES

PROJECTION: 1 1
SCALE NTS

PART NO.
DWG NO. B29390
REV A
SHEET 3 OF 3
SIZE B