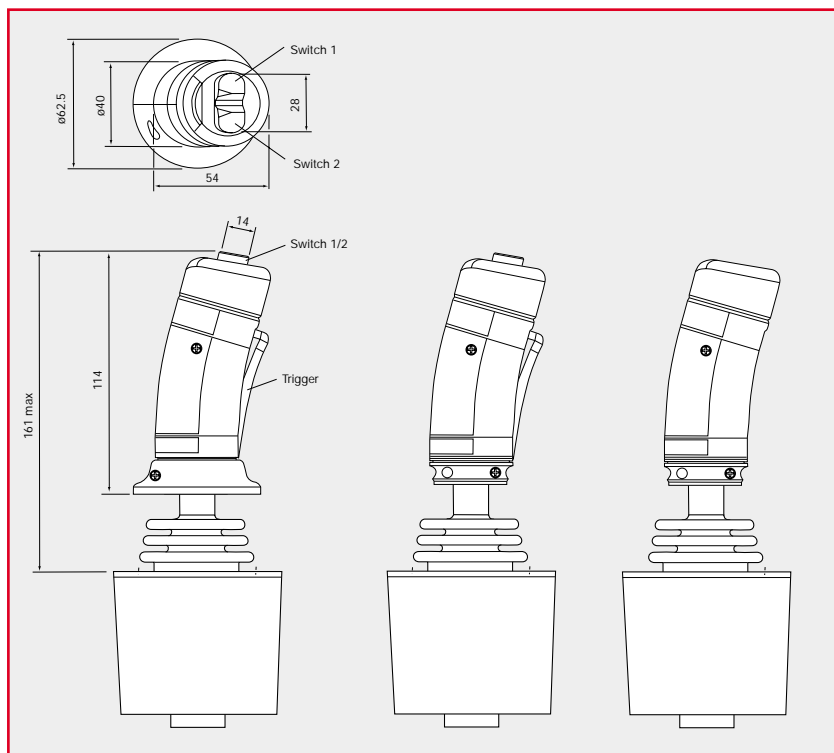


# MG HANDLE OPTIONS

## DIMENSIONS



## SPECIFICATION

Maximum height above flange	mm	161
Maximum grip diameter	mm	40
Environmental sealing (IEC 60529)		IP67 (IP66 with trigger switch)
Number of switches		0 to 3
Action		Momentary Button (1), Rocker (1+2) or Trigger
Switch operating force		
Trigger	N	5
Switch 1 or 2	N	7
Maximum current @ 30Vdc	mA	100
Expected life (operations)		1 million
Operating temperature	°C	-25 to +75
Storage temperature	°C	-30 to +80

**HANDLE CODE**

	<i>Top switch position</i>	<i>Trigger switch</i>	<i>Hand rest</i>
MG00	None	No	No
MG01	1	No	No
MG02	1 & 2	No	No
MG03	1 & 2	Yes	No
MG04	1 & 2	Yes	Yes
MG05	1	Yes	Yes
MG06	1 & 2	No	Yes
MG07	1	No	Yes
MG08	1	Yes	No
MG09	None	Yes	Yes
MG10	None	No	Yes
MG11	None	Yes	No

See electrical connections for wire color codes.

**ELECTRICAL CONNECTIONS**

	<i>Pin number</i>	<i>Wire color</i>
Common terminal (for top switches)	16	Black
Switch 1	6	Blue
Switch 2	3	Green
Trigger switch	4	Blue/Orange
Trigger switch	5	Yellow

# JC150 JOYSTICK CONTROLLER HANDLE OPTIONS

## HKN

The HKN handle is the simplest option available for the JC150. This handle does not include any additional functionality, but is designed to allow the JC150 joystick to be controlled by the operator gripping the handle, palm downwards.



## CL/EL

Developed to improve the integrity of your control system, the Center Lock (CL) and End Lock (EL) handles provide a mechanical safety lock – eliminating unwanted movement of the lever. They mechanically hold the shaft of the JC150 in its safe central position or at either end of the JC150's range of travel. Lifting the collar under the base of the handle unlocks the shaft.



## HB RANGE

Developed to replicate the functionality of a traditional mechanical handle, the 'HB' range can be supplied with either a momentary action button or rocker switch, mounted into the top of the handle, within easy reach of the operator's thumb. These can be configured as a 'Person Present' feature or, for example, the steer signal for an access platform.



## MG RANGE

This option is designed to provide a simple approach to a 'Person Present' handle. The 'MG' range can be supplied with or without an operator's hand rest and can be configured with a combination of momentary action button or rocker switch in the top of the handle, with a trigger switch at the front of the hand grip. The handle profile ensures the operator's fingers are permanently close to the buttons, minimising operator fatigue and maximising functional control. This handle can also be purchased separately, for fitting to customer levers or assemblies. Ask our sales team for more details on this option.



## A RANGE

This option is designed to meet the demands for more complex control systems in off-highway applications. The 'A' range of ergonomic multifunction hand grips can be fitted with a combination of analog outputs, push button and 'Person Present' switches. The handle can be supplied with two independent analog outputs generated by proportional rockers which, in turn, provide auxiliary directional switching in addition to the potentiometric output. When coupled with the JC150 joystick, this unit can provide a three-axis control device.

This handle can also be purchased separately, for fitting to customer levers or assemblies. Ask our sales team for more details on this option.



## W RANGE

This option provides an alternative approach to a 'Person Present' handle whilst offering the flexibility of multiple switches in the top of the handle. The 'W' range can be supplied with (WT) or without (WN) the 'Person Present' trigger switch as well as up to four switches in the handle top. These can be specified to be in any of the four 'on axis' positions.



# Penny+Giles

A Curtiss-Wright Company

[www.pennyandgiles.com](http://www.pennyandgiles.com)

## Penny & Giles

Position sensors, joysticks and solenoids for commercial and industrial applications.

36 Nine Mile Point Industrial Estate  
Cwmfelinfach  
Gwent NP11 7HZ  
United Kingdom  
+44 (0) 1495 202000  
+44 (0) 1495 202006 Fax  
[sales@pennyandgiles.com](mailto:sales@pennyandgiles.com)

15 Airfield Road  
Christchurch  
Dorset BH23 3TG  
United Kingdom  
+44 (0) 1202 409499  
+44 (0) 1202 409475 Fax  
[sales@pennyandgiles.com](mailto:sales@pennyandgiles.com)

665 North Baldwin Park Boulevard  
City of Industry, CA 91746  
USA  
+1 626 480 2150  
+1 626 369 6318 Fax  
[us.sales@pennyandgiles.com](mailto:us.sales@pennyandgiles.com)

Straussenlettenstr. 7b  
85053 Ingolstadt,  
Germany  
+49 (0) 841 885567-0  
+49 (0) 841 885567-67 Fax  
[info@penny-giles.de](mailto:info@penny-giles.de)

3-1-A, Xiandai Square,  
No 333 Xingpu Rd,  
Suzhou Industrial Park, 215126  
China  
+86 512 6287 3380  
+86 512 6287 3390 Fax  
[sales@pennyandgiles.com.cn](mailto:sales@pennyandgiles.com.cn)

The information contained in this brochure on product applications should be used by customers for guidance only. Penny+Giles Controls Ltd makes no warranty or representation in respect of product fitness or suitability for any particular design application, environment, or otherwise, except as may subsequently be agreed in a contract for the sale and purchase of products. Customer's should therefore satisfy themselves of the actual performance requirements and subsequently the products suitability for any particular design application and the environment in which the product is to be used.

Continual research and development may require change to products and specification without prior notification. All trademarks acknowledged.

© Penny+Giles Controls Ltd 2012

Doc Ref: JC150 04/12

**CURTISS  
WRIGHT** Controls