

IHL series

Hall effect pushbutton switches •
bushing Ø 12 mm • linear



DISTINCTIVE FEATURES

- Linear output pushbutton
- 0.5 to 4.5 volt output
- Different operating forces
- 5 million cycles
- Sealed to IP67



ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- EMC testing : 10 V per meter extend to radiated fields in frequency range of 80 Mhz to 1,000 MHz. 1KHz 80 % sine wave modulation according to IEC/EN 61000-4-3



ELECTRICAL SPECIFICATIONS

- Supply voltage :
4.5 VDC to 5.5 VDC without regulator
6.5 VDC to 24 VDC with 5V regulator
- Supply current : 9 mA max.
- Max. output current : 1.25 mA
- Max. output voltage with or without regulator : see graph next page.



GENERAL SPECIFICATIONS

- Panel thickness : 1.5 mm (.059) min. - 10 mm (.393) max.
- Total travel : 4 mm (.160) ± 0.3 mm
- Mechanical life : 5 million cycles
- Torque : 1 Nm max. applied to nut



MATERIALS

- Case : PA46, UL94-V0
- Actuator : polyamide 6/6
- Bushing : polyamide 6/6
- Multi-wire leads : AWG26, 150 mm

The company reserves the right to change specifications without notice.

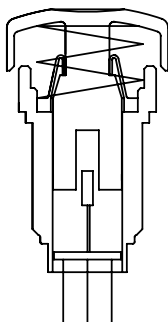


IHL series

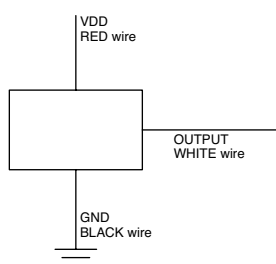
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ELECTRICAL FUNCTIONS

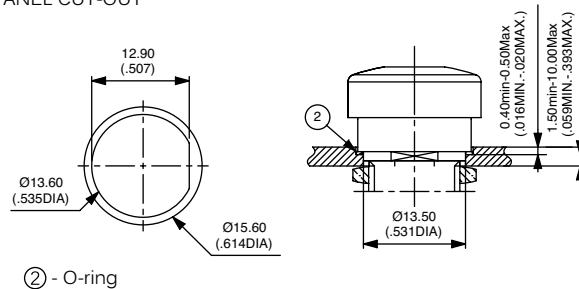


WIRING DIAGRAM

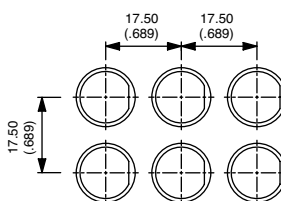


MOUNTING

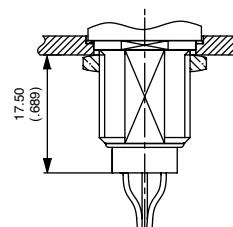
PANEL CUT-OUT



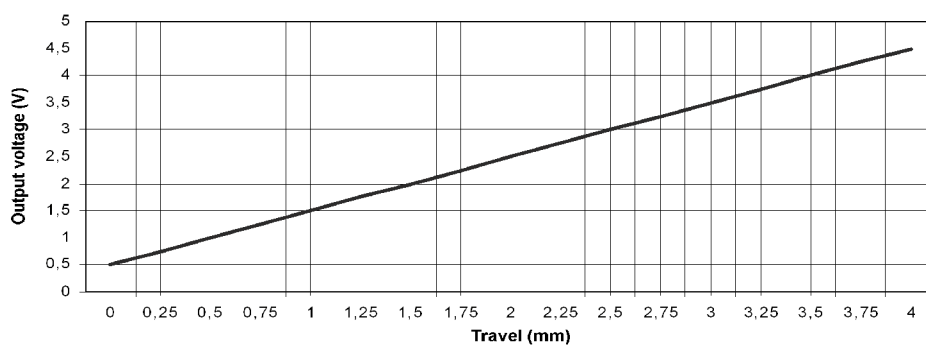
MATRIX MOUNTING



BACK OF PANEL SPACE REQUIREMENT



LINEAR OUTPUT GRAPH (VDC = 5V@20°C)



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BUILD YOUR PART NUMBER

BASIC PART NUMBER					
IHL					
SERIES	ACTUATOR SHAPE	OUTPUT VOLTAGE	OPERATING FORCE	REGULATOR	TERMINALS
	R Round	01 0.5 to 4.5 V Other : on request.	3 Soft 5 Standard (4 N to 6 N) 7 Hard	X None 5 5V regulator Other : on request.	F Flying leads

OPTIONS	
ACTUATOR COLORS	
1 Blue	5 Yellow
B Dark blue	6 Red
2 Black	7 White
3 Green	9 Orange
4 Grey	



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.



Notice : please note that not all combinations of above numbers are available. Refer to the following pages for further information.



Mounting accessories : Standard hardware supplied : 1 hex nut 14 mm (.551) across flats and 1 O-Ring. Hex nut part number U166.

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WITHOUT REGULATOR



Soft operating force

IHLR013XF

Standard operating force

IHLR015XF

Hard operating force

IHLR017XF

WITH 5V REGULATOR



Soft operating force

IHLR0135F

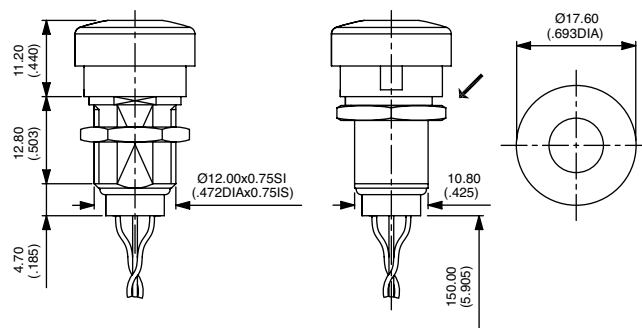
Standard operating force

IHLR0155F

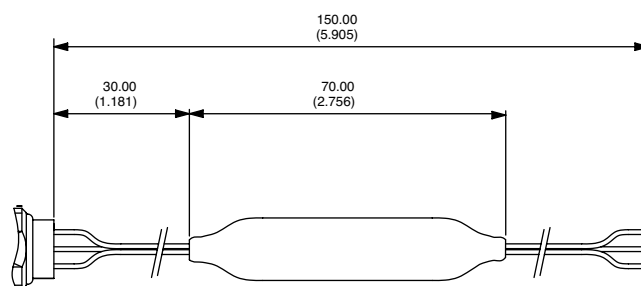
Hard operating force

IHLR0175F

→ FLAT



→ FLAT



ACTUATOR COLORS

BASIC P/N



- | | |
|---|-----------|
| 1 | Blue |
| B | Dark blue |
| 2 | Black |
| 3 | Green |
| 4 | Grey |
| 5 | Yellow |
| 6 | Red |
| 7 | White |
| 9 | Orange |

Mouser Electronics

Authorized Distributor

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[IHLR0155F6](#)