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

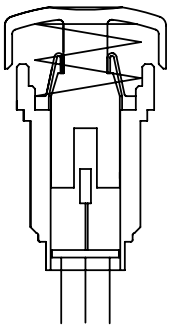
- Case : PA46, UL94-V0
- Actuator : polyamide 6/6
- Bushing : polyamide 6/6
- Multi-wire leads : AWG26, 150 mm

The company reserves the right to change specifications without notice.

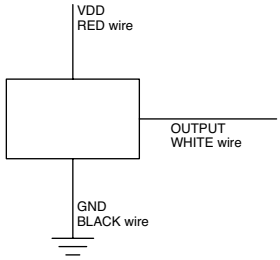
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ELECTRICAL FUNCTIONS

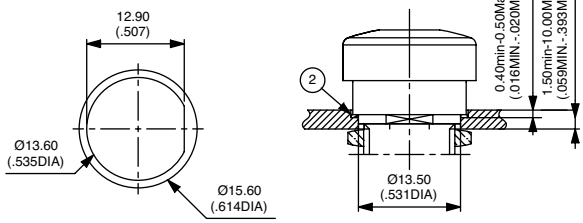


WIRING DIAGRAM



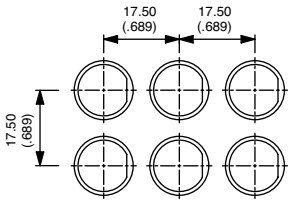
MOUNTING

PANEL CUT-OUT

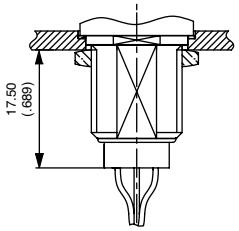


② - O-ring

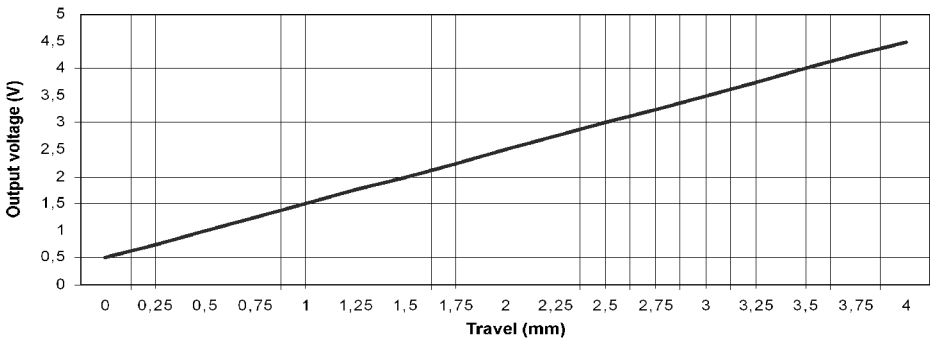
MATRIX MOUNTING



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

IHL

ACTUATOR SHAPE

R	Round

OUTPUT VOLTAGE

01	0.5 to 4.5 V

Other : on request.

OPERATING FORCE

3	Soft
5	Standard (4 N to 6 N)
7	Hard

REGULATOR

X	None
5	5V regulator

Other : on request.

TERMINALS

F	Flying leads

OPTIONS

_

ACTUATOR COLORS

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

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

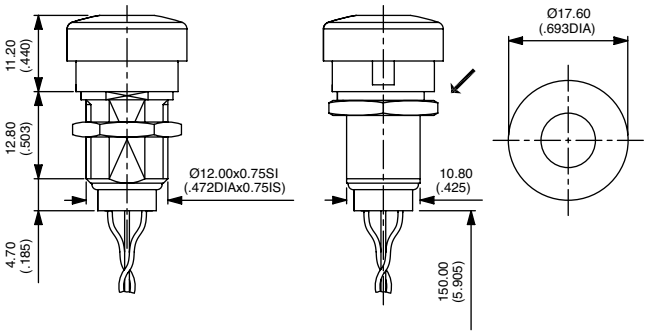


Soft operating force
IHLR013XF

Standard operating force
IHLR015XF

Hard operating force
IHLR017XF

→ FLAT



WITH 5V REGULATOR

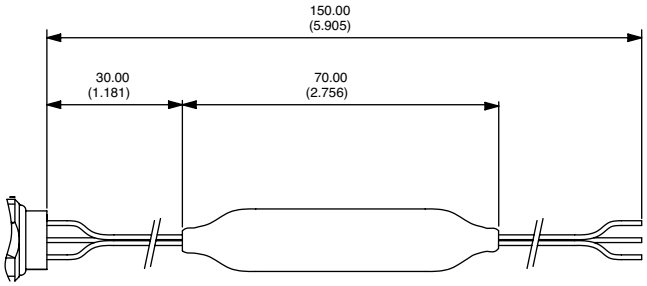


Soft operating force
IHLR0135F

Standard operating force
IHLR0155F

Hard operating force
IHLR0175F

→ 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