

IHS series

Hall effect pushbutton switches - bushing Ø 12 mm - momentary

Distinctive features and specifications

UG1410A



- ☐ Momentary pushbutton (NO)
- ☐ 5 million cycles
- ☐ Low behind-panel depth
- ☐ Standard and high actuator
- ☐ Sealed to IP67

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Operating temperature : -40°C to +85°C

ELECTRICAL SPECIFICATIONS

- Supply voltage : 3,5VDC to 24VDC
- Supply current : VDC = 12V : 2,5mA Typ. to 5mA max. (current consumption in OFF position)
- Max. output current : 50mA
- Max. output voltage : 24VDC
- Output type : NPN

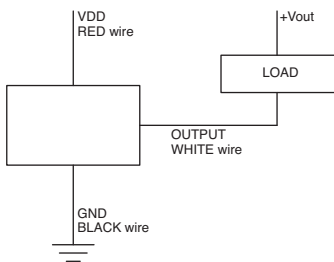
GENERAL SPECIFICATIONS

- Panel thickness : 1,5 mm (.059) min. 4 mm (.157) max.
- Total travel : 1,80 mm (.070) +/- 0,3 mm
- Typical operating force : 6N +/- 2N
- Mechanical life : 5 million cycles
- Torque : 1,5 Nm max. applied to nut

MATERIALS

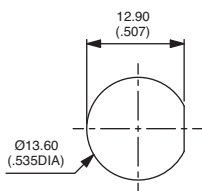
- Case : PBT, UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : zinc die-cast (zamac), black painted
- Multi-wire lead : AWG26, 150 mm

WIRING DIAGRAM

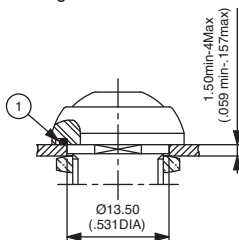


MOUNTING

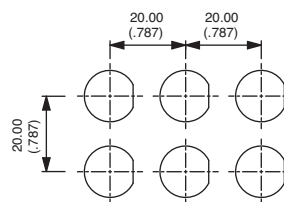
Panel cut-out



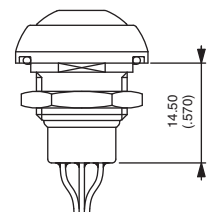
① O-ring



Matrix mounting



Back of panel space requirement

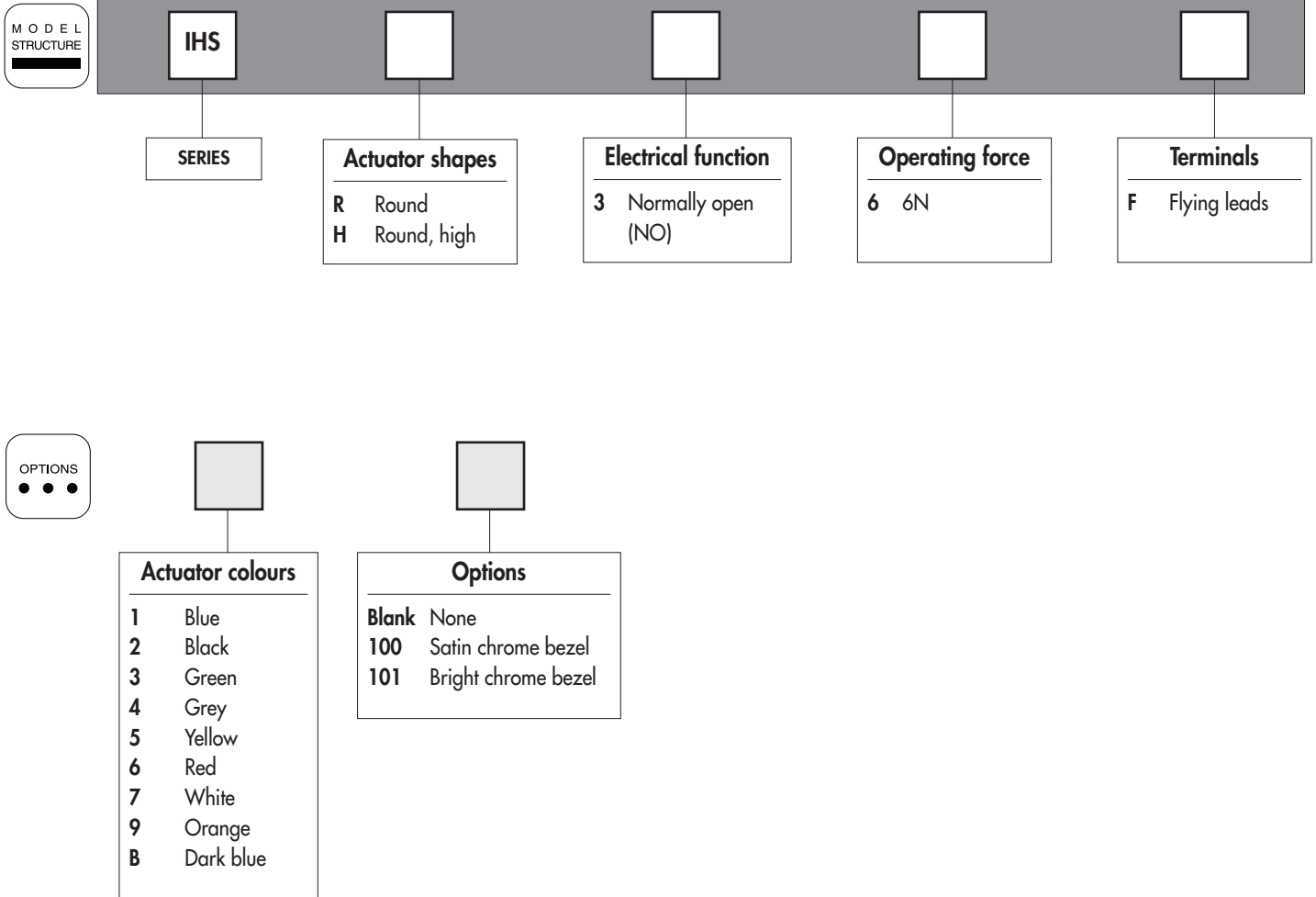


The company reserves the right to change specifications without notice.

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Overview



ABOUT THIS SERIES

On the following pages, you will find successively :
model structure of switches and options in the same order as in above chart

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.



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



A sealing boot is available to protect the switches against frost and sand (P/N U5125). It is presented after the IA series and in section H.



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

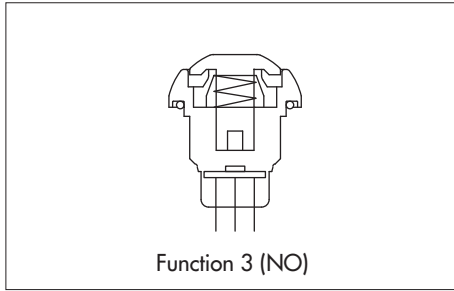


Packaging unit : 25 pieces

IHS series

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Round - non-illuminated



- Standard or high actuator

MODEL
STRUCTURE



B1

Standard actuator

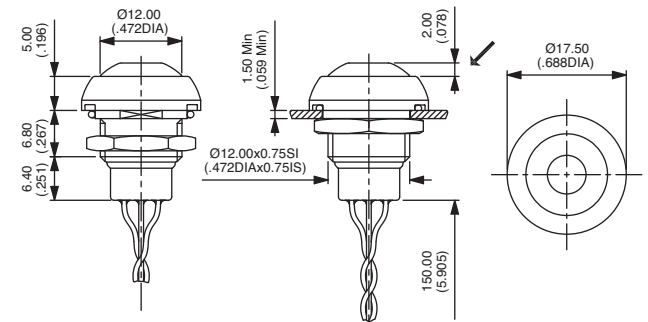
→ Flat



IHSR36F



Normally Open



High actuator

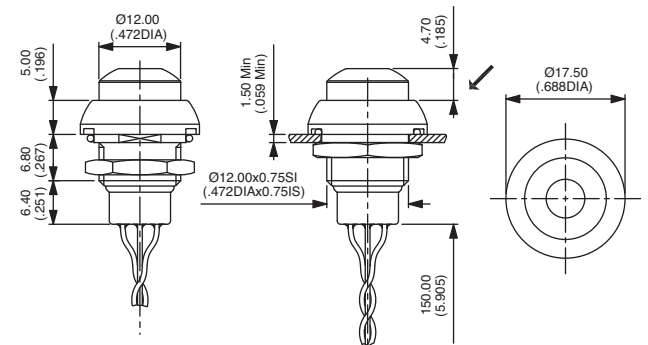
→ Flat



IHSH36F



Normally Open

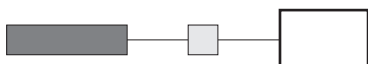


ACTUATOR COLOURS



1 : blue - 2 : black - 3 : green - 4 : grey - 5 : yellow - 6 : red - 7 : white - 9 : orange - B : dark blue

OPTIONS



100 : Satin chrome bezel
101 : Bright chrome bezel

IHL series

Hall effect pushbutton switches - bushing Ø 12 mm - linear

Distinctive features and specifications



- ☐ Linear output pushbutton
- ☐ 0,5 to 4,5 volt output
- ☐ Different operating force
- ☐ 5 million cycles
- ☐ Sealed to IP67

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Operating temperature : -40°C to +85°C
- EMC testing : 10V per meter extend to radiated fields in freq. range of 80 Mhz to 1.000 MHz. 1KHz 80 % sine wave modulation according to IEC/EN 61000-4-3

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

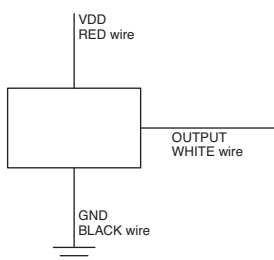
ELECTRICAL SPECIFICATIONS

- Supply voltage : 4,5VDC to 5,5VDC without regulator 6,5VDC to 24VDC with 5V regulator
- Supply current : 9mA max.
- Max. output current : 1,25mA
- Max. output voltage with or without regulator : see graph below.

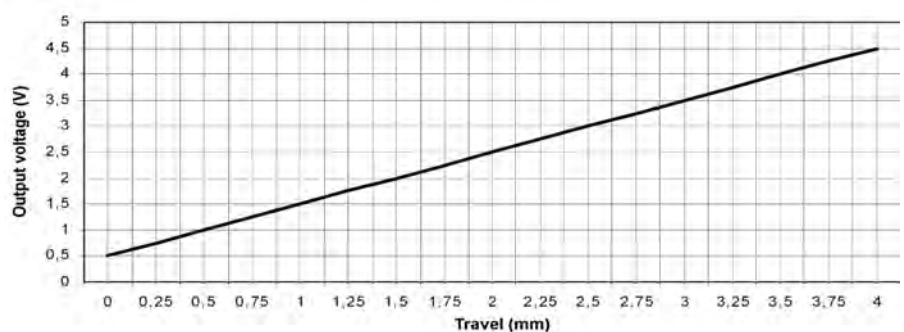
MATERIALS

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

WIRING DIAGRAM



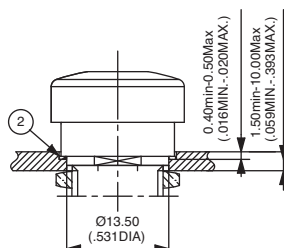
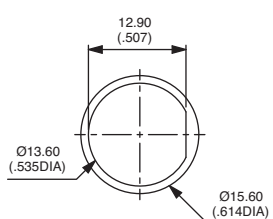
LINEAR OUTPUT GRAPH (VDC = 5V@20°C)



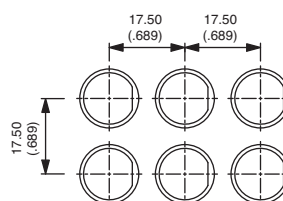
MOUNTING

Panel cut-out

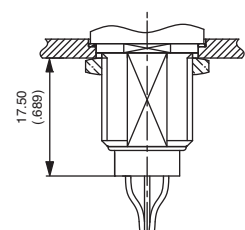
② O-ring



Matrix mounting



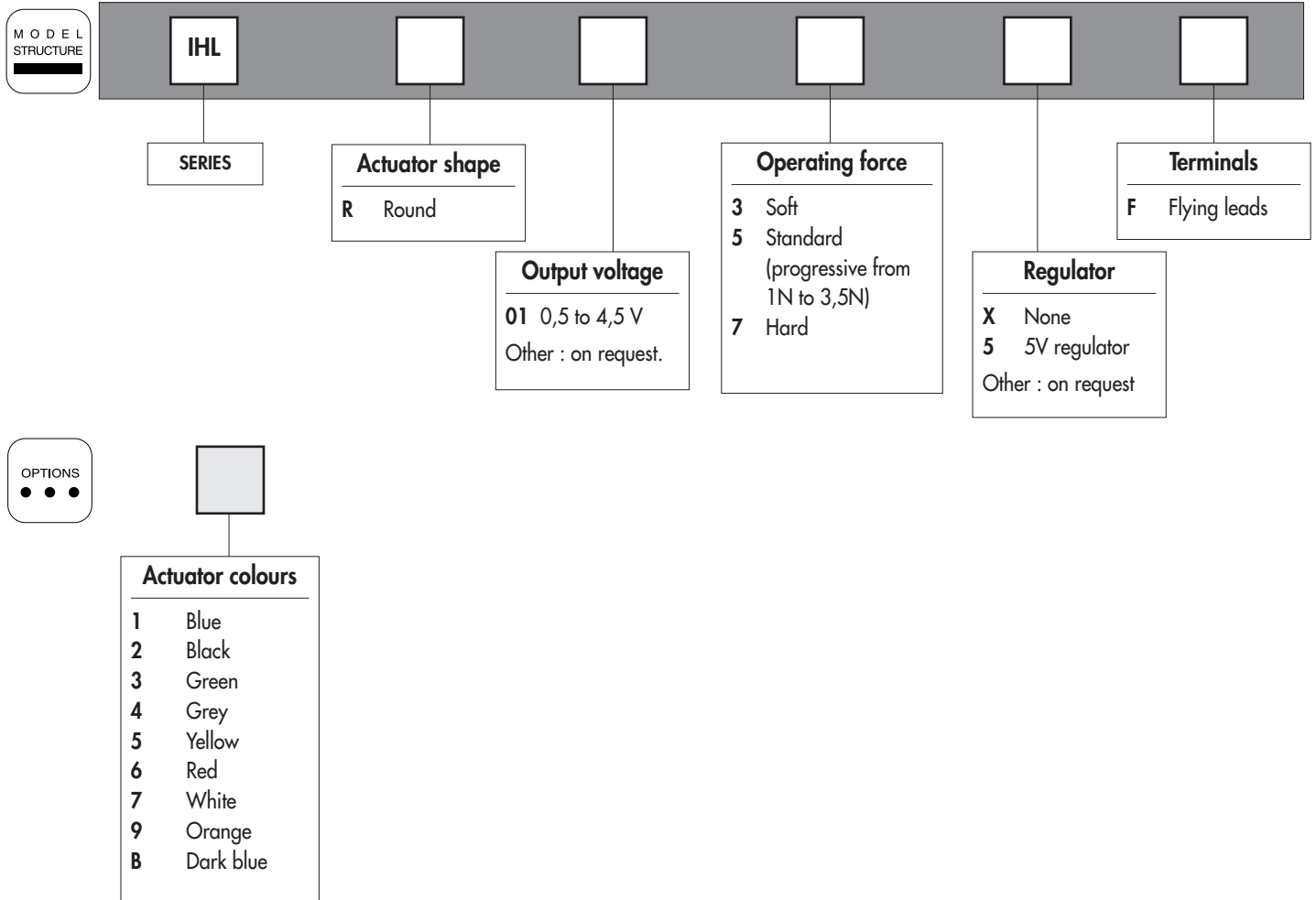
Back of panel space requirement



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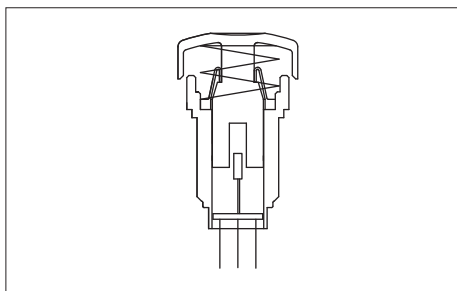
Packaging unit : 25 pieces

IHL series

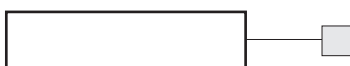
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Round - non-illuminated

- With or without regulator



MODEL
STRUCTURE



Without regulator

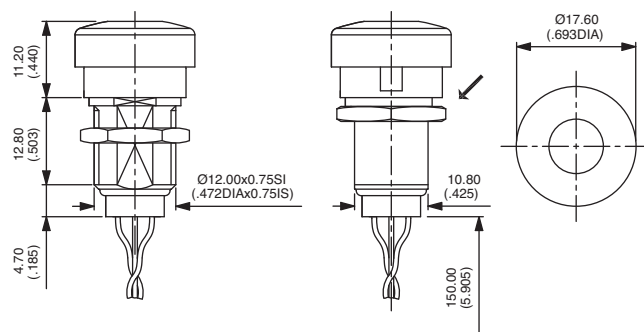


Soft operating force
IHLR013XF

Standard operating force
IHLR015XF

Hard operating force
IHLR017XF

→ Flat



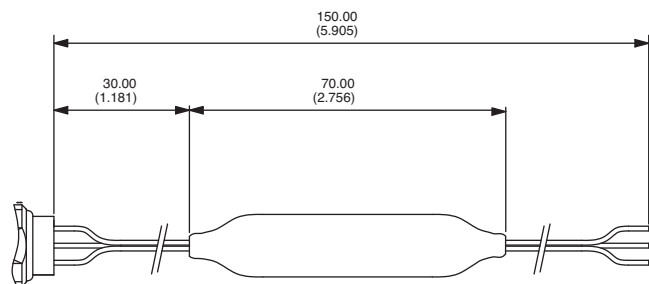
With 5V regulator



Soft operating force
IHLR0135F

Standard operating force
IHLR0155F

Hard operating force
IHLR0175F



ACTUATOR COLOURS



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Mouser Electronics

Authorized Distributor

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[IHLR015XF9](#)