

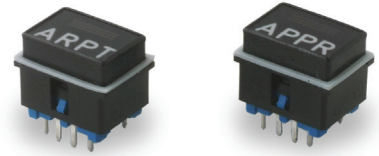


Features/Benefits

- Illuminated display
- Small size
- Cold lighting
- Tactile feed back

Typical Applications

- Avionic



Mechanical

ACTUATION FORCE: 5,5 N $\pm$ 0,5 N
 MAXIMUM FORCE: 80 N
 TRAVEL TO CONTACT: 1,2 $\pm$ 0,1 mm
 OVERTRAVEL: >0,3 mm
 TOTAL TRAVEL: 1,5 $\pm$ 0,1 mm
 LIFE EXPECTANCY: 10⁶ operations 28 V - 10 mA
 WEIGHT: 2 grams
 VIBRATION: $\pm$ 0,45mm from 33 Hz to 75 Hz
 ACCELERATION: 10 g max

Electrical

CONTACTS: Gold plated
 VOLTAGE: Max 100 V - Min 20 mV DC
 CARRYING CURRENT: Max 250 mA - Min 50 μ A
 SWITCHING CURRENT: Max 50 mA - Min 50 μ A
 MAX SWITCHING POWER: 1 W
 CONTACT RESISTANCE: < 50 Ω
 DIELECTRIC STRENGTH: 500 V rms
 INSULATION RESISTANCE (100 V): > 5000 M Ω
 BOUNCE: < 3 ms
 SWITCHING OF 2 POLES MATCHING: < 10 ms

Environmental Data

STORAGE TEMPERATURE: -55°C TO 85°C
 OPERATING TEMPERATURE: -30°C TO 85°C
 TEMPERATURE OF KEY TO CAP: < Ambient +25°C
 HUMIDITY TEST: 21 days (-40°C - 93% HR)
 ALTITUDE PRESSURE: From 20 hPa to 1070 hPa

Soldering Data

MANUAL SOLDERING: 250°C / 2s
 SEALING: According to IP64

Plastic Material

Housing and Cap: UL-94 V0

NOTE: Specifications and materials listed above are for switches with standard options.
 For information on specific and custom switches, please contact Customer Service.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

Designation PBA PBA Series		Size 1 9,5 x 14 2 11,5 x 14 3 14 x 14		Marking Location H High M Middle L Low		Type of Marking T Text / Legend S Status Indicator		LED Color 0 White λ 1 Green λ 560 nm 2 Yellow Green λ 568 nm 3 Amber λ 590 nm 4 Red λ 660 nm 5 Other λ		LED Supply or Type AC Alternative DC Direct XX for each marking 1:6 LEDs in parallel for direct current																													
Build-A-Switch P B A [] [] [] [] [] Repeat sequence for 2nd Marking [] []		Display Type		<table border="1"> <thead> <tr> <th></th> <th></th> <th>LED Non-Illuminated</th> <th>LED Illuminated</th> </tr> </thead> <tbody> <tr> <td rowspan="2">N</td> <td>Text Marking</td> <td>White</td> <td>LED Color</td> </tr> <tr> <td>Background</td> <td>Black</td> <td>Black</td> </tr> <tr> <td rowspan="2">S</td> <td>Text Marking</td> <td>Not visible</td> <td>LED Color</td> </tr> <tr> <td>Background</td> <td>Black</td> <td>Black</td> </tr> <tr> <td rowspan="2">R</td> <td>Text Marking</td> <td>White</td> <td>LED Color</td> </tr> <tr> <td>Background</td> <td>Red</td> <td>Red</td> </tr> <tr> <td rowspan="2">G</td> <td>Text Marking</td> <td>Green</td> <td>Green</td> </tr> <tr> <td>Background</td> <td>Black</td> <td>Black</td> </tr> </tbody> </table>				LED Non-Illuminated	LED Illuminated	N	Text Marking	White	LED Color	Background	Black	Black	S	Text Marking	Not visible	LED Color	Background	Black	Black	R	Text Marking	White	LED Color	Background	Red	Red	G	Text Marking	Green	Green	Background	Black	Black		
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PBA Series Illuminated Pushbutton

A

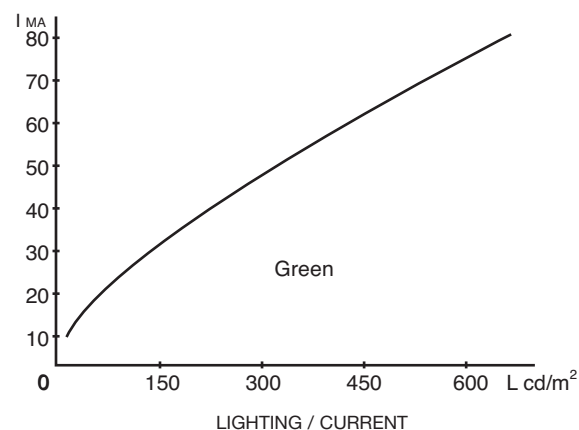
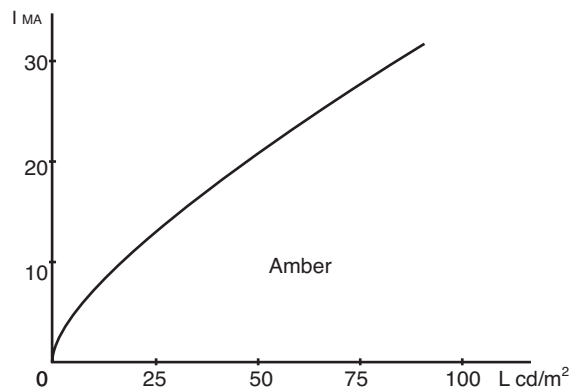
Pushbutton

LIGHTING DATA

The legends of function and the status indicator can be illuminated separately.

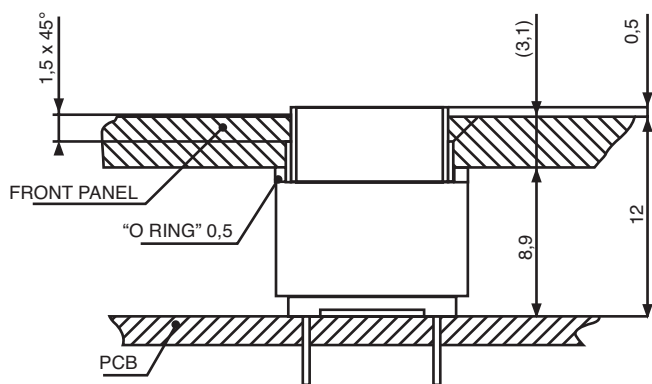
Color	Amber	Green
Wave Length	586 < λ < 592	555 < λ < 560
Current Max	80 mA	80 mA
Chromaticity	X Y	X Y
	0,54 < X < 0,58 0,40 < Y < 0,44	0,30 < X < 0,40 0,6 < Y
Contrast Min.	1,2	0,85

For other colors and displays, please contact Customer Service.



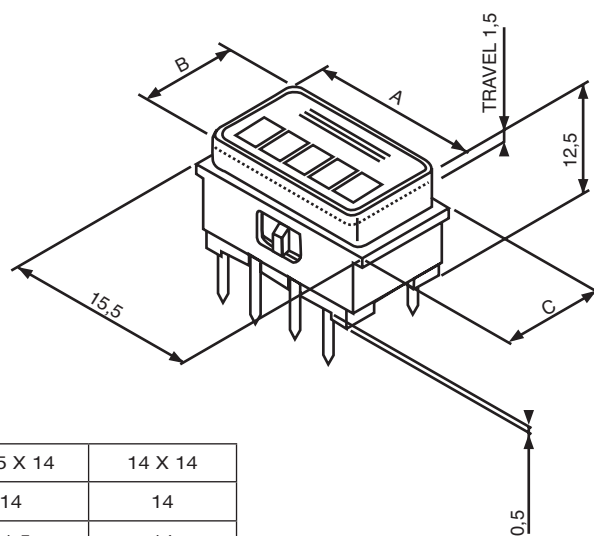
LIGHTING / CURRENT

DIMENSIONS (applicable for any size)



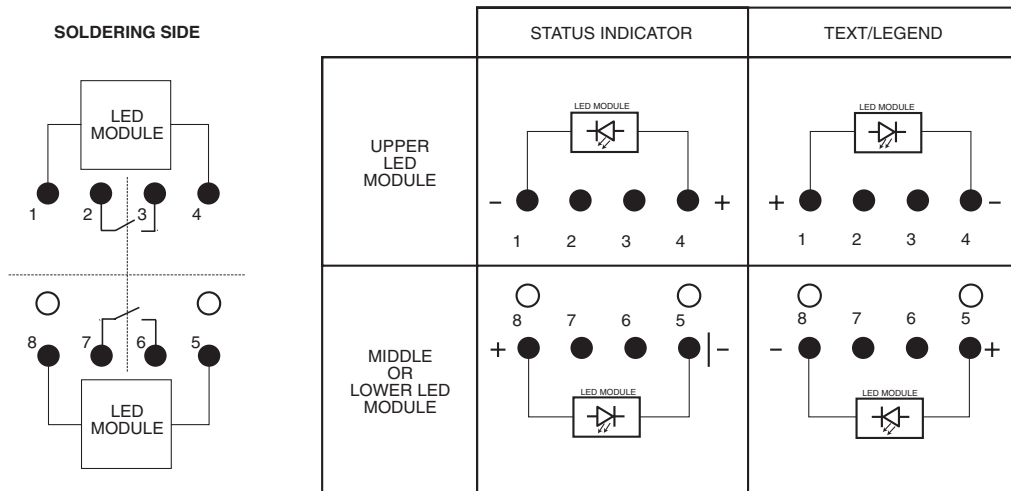
Tolerance: ± 0,1 mm

	9,5 X 14	11,5 X 14	14 X 14
A	14	14	14
B	9,5	11,5	14
C	11	11,5	15,5

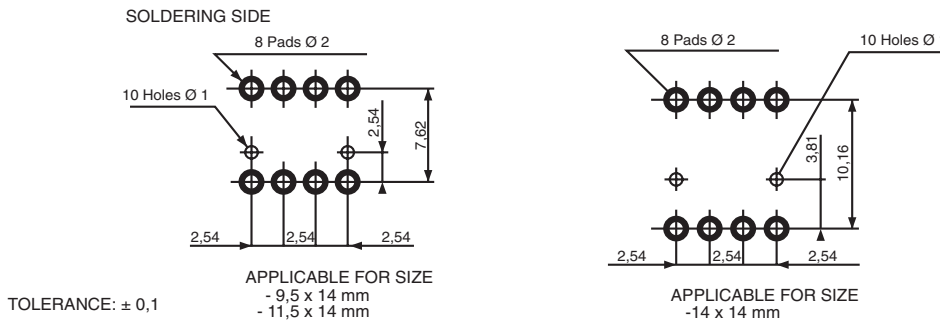




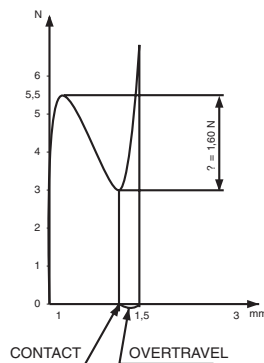
LED MODULE LAYOUT



PCB Layout



TACTILE EFFECT



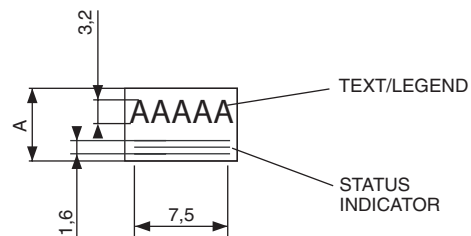
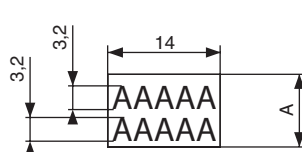
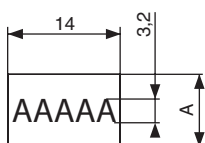
TRAVEL

- TRAVEL TO CONTACT: $1,2 \pm 0,1$ mm
- OVERTRAVEL: $> 0,3$ mm
- TOTAL TRAVEL: $1,5 \pm 0,1$ mm

FORCE

- ACTUATOR FORCE: $5,5 \text{ N} \pm 0,5 \text{ N}$
- TACTILE FEELING: $1,6 \text{ N}$

1 or 2 markings are available in any combination of text / legend or status indicator.



Mouser Electronics

Authorized Distributor

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C&K Switches:

[PBA1MS1SDC](#) [PBA3HS1LS1SDC](#) [PBA1HS1SLT3NDC3LIGATT](#) [PBA1HS1SLT3NDC3LIGCALL](#)
[PBA1HS1SLT3NDC3LIGCRZ](#) [PBA1HS1SLT3NDC3LIGCSTR](#) [PBA1HS1SLT3NDC3LIGDEC](#)
[PBA1HS1SLT3NDC3LIGARPT](#) [PBA1HS1SLT3NACDC3LIGFD](#) [PBA1HS1SLT3NACDC3LIGLS](#)
[PBA1HS1SLT3NACDC3LIGNDB](#) [PBA1HS1SLT3NACDC3LIGWPT](#) [PBA1HS1SLT3NDC3LIGALT](#)
[PBA1HS1SLT3NDC3LIGAPPR](#) [PBA1HS1SDC3LIG](#) [PBA1HS1SLT3NACDC3LIGALT](#)
[PBA1HS1SLT3NACDC3LIGAPPR](#) [PBA1HS1SLT3NACDC3LIGARPT](#) [PBA1HS1SLT3NACDC3LIGCSTR](#)
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[PBA3HT3SLT3SDCLOWPAPER](#) [PBA1DUMMY](#) [PBA1FACTICE](#) [PBA1MT3NDCSTD](#) [PBA1MT3NDCTEST](#)
[PBA1MT3SDCFail](#) [PBA20ALTA340DCDCPN7516900](#) [PBA20EXPA320ACDCPN7516901](#) [PBA20EXPA340DCDCPN](#)
[PBA3HS1SLT3NACDC3LIGATHR](#) [PBA3HS1SLT3NDC3LIGATHR](#) [PBA1MT2NACSLEW](#) [PBA1MT3NDCALL](#)
[PBA1MT3NDCRCL](#) [PBA1MT3NDCSLEW](#) [PBA1MT1NDC](#) [PBA1SSM0DULEF0NDN0IR](#) [PBA2HS1SLT3NDCLOC](#)
[PBA2HS1SLT3NDCSANSOPER](#) [PBA2HS1SLT3NDCV0R.D](#) [PBA2SSM0DULEF0NDN0IR](#)
[PBA1HS1SLT3NACDC3LIGLOC](#) [PBA1HS1SLT3NACDC3LIGV0R.D](#) [PBA1HS1SLT3NDC3LIGLOC](#)
[PBA1HS1SLT3NDC3LIGV0R.D](#) [PBA1HS3SLT3NDC3LIGOFF](#) [PBA1HT2NLS2SACDCPOWER3LIGN](#)
[PBA3HS1SLT3NDC3LIGAP1](#) [PBA3HS1SLT3NDC3LIGAP2](#) [PBA3HT1NLS1SDCSLEW3LIG](#)
[PBA3HT1NLS1SDCTEST3LIGN](#) [PBA3HT1NLT1NDCALERTRESET](#) [PBA3MT3SDCFail](#) [PBA2HS1SLT3NDCILS](#)
[PBA2HS1SLT3NDCNDB](#) [PBA2HS1SLT3NDCWPT](#) [PBA3HS1SLT3NACDC3LIGAP1](#) [PBA3HS1SLT3NACDC3LIGAP2](#)
[PBA3HS1SLT3NACDC3LIGAPPR](#) [PBA1HT3SLT3SDCPAPERALARMA](#) [PBA2HS1SLT3NDCAPPR](#)
[PBA2HS1SLT3NDCARPT](#) [PBA2HS1SLT3NDCCSTR](#) [PBA2HS1SLT3NDCEXPED](#) [PBA2HS1SLT3NDCFD](#)
[PBA1HS1SLT3NDC3LIGWPT](#) [PBA1HT1NLT3NDCSDEG](#) [PBA1HT1NLT3NDCSSEC](#)
[PBA1HT2NLS2SACDCRESET3LIGN](#) [PBA1HT2NLS2SACDCTEST3LIGN](#) [PBA1HT2NLT2NACPAPER CUT](#)
[PBA1HS1SLT3NDC3LIGEVs](#) [PBA1HS1SLT3NDC3LIGFD](#) [PBA1HS1SLT3NDC3LIGLS](#)
[PBA1HS1SLT3NDC3LIGMECH](#) [PBA1HS1SLT3NDC3LIGNDB](#) [PBA1HS1SLT3NDC3LIGVMC](#)
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[PBA2SSMODULEFONDNOIR](#) [PBA1HS1SLT3NAC/DC3LIG+LOC](#) [PBA1HS1SLT3NAC/DC3LIG+VOR.D](#)
[PBA1HS1SLT3NDC3LIG+LOC](#) [PBA1HS1SLT3NDC3LIG+VOR.D](#) [PBA1HS1SLT3SDC3LIG+MECH](#)

PBA1HS3SLT3NDC3LIG+OFF PBA1HT2NLS2SACDCPOWER+3LIGN. PBA1HT3SLT3SDCLOW+PAPER
PBA1HS1SLT3NDC-3LIG+ALT PBA1HS1SLT3NDC-3LIG+APPR PBA1HS1SLT3NDC-3LIG+ARPT
PBA1HS1SLT3NDC-3LIG+CSTR PBA1HS1SLT3NDC-3LIG+FD PBA1HS1SLT3NDC-3LIG+LS PBA1HS1SLT3NDC-
3LIG+NDB PBA1HS1SLT3NDC-3LIG+WPT