



NOTES  
 1 MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF Ø2.21/Ø.087 MAX ON 9.50±0.05/.374±.002 CENTERS  
 2 - TERMINALS ARE PLATED FOR SOLDERING  
 3 - SWITCH WILL WITHSTAND A TEMPERATURE OF 82.2°C/180°F

4275.5-4401-1700/A1  
 9222145  
 E 12252  
 LR23413-167M  
 LISTING PREFIX ELECTRICAL RATING CE  
 UM50 5A 250 VAC  
 UM40 3A 250 VAC  
 UM10 .1A 250 VAC  
 ANSI Y14.5M-1982 APPLIES

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MICRO SWITCH a Honeywell Division

SWITCH - BASIC

CATALOG LISTING

UM SERIES CHART 3

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION

SCALE 4 : 1

DO NOT SCALE PRINT

TOLERANCES  
 APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE :

| DIM.         | TOL.  | DIM.      | TOL.      |
|--------------|-------|-----------|-----------|
| NO. PLACES   | mm    | "         | mm/in     |
| ONE PLACE    | X.X   | 1/2, 3/4  | 0.81/0.93 |
| TWO PLACES   | X.XX  | 0.47/0.16 | 0.38/0.15 |
| THREE PLACES | X.XXX | 0.15/0.06 | 0.13/0.05 |
| ANGLES       |       |           |           |

DESIGN UNITS  SI METRIC  US CUSTOMARY

WEIGHT

UM SERIES CHART 3  
 PAGE 1 OF 2  
 RELEASE NO. PR-19771  
 REPLACES  
 DRAWING NUMBER  
 ISSUE 10  
 REVISIONS  
 A C094774 TSM 15 JUL 99  
 B 207494 SCL 19 FEB 03  
 C 207567 C S L 5 MAR 03  
 DRAWN 15 JUL 99  
 CHECK JAF  
 PTC/CAD 2D  
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 SLD  
 19 FEB 03  
 C 207567  
 S I  
 5 MAR 03  
 PAGES 2 OF 2  
 RELEASE NO. PR-19771  
 REPLACES

| SWITCH TYPE       | ACTUATOR TYPE                   | PRINTED CIRCUIT BOARD TERMINALS (LEFT ANGLE IN-LINE) |                        | PRINTED CIRCUIT BOARD TERMINALS (RIGHT ANGLE IN-LINE) |                        | CHARACTERISTICS     |                   |               |                         |                        |                         |
|-------------------|---------------------------------|--|------------------------|---|------------------------|---------------------|-------------------|---------------|-------------------------|------------------------|-------------------------|
|                   |                                 | SILVER ALLOY   | GOLD-CLAD TRIPLE LAYER | SILVER ALLOY  | GOLD-CLAD TRIPLE LAYER | OPERATING FORCE MAX | RELEASE FORCE MIN | PRETRAVEL MAX | DIFFERENTIAL TRAVEL MAX | OVER TRAVEL MIN        | OPERATING POSITION      |
|                   |                                 | grams OUNCES   | grams OUNCES           | mm INCHES   | mm INCHES              | mm INCHES           | mm INCHES         | mm INCHES     | mm INCHES               | mm INCHES              |                         |
| STANDARD VERSION  | PIN PLUNGER                     | -----  | (A)                    | -----   | (A)                    | 25<br>.882          | 2<br>.071         | 0,60<br>.024  | 0,10<br>.004            | 0,40<br>.016           | 8,40±0,30<br>.331±.012  |
|                   |                                 | (C)  | UM10B60A01             | UM40B50A01  | UM10B50A01             | 50<br>1.764         | 7.5<br>.265       | 0,60<br>.024  | 0,10<br>.004            | 0,40<br>.016           | 8,40±0,30<br>.331±.012  |
|                   |                                 | UM40D60A01   | (C)                    | UM40D50A01  | (C)                    | 100<br>3.527        | 15<br>.529        | 0,60<br>.024  | 0,10<br>.004            | 0,40<br>.016           | 8,40±0,30<br>.331±.012  |
|                   | UML10000 ROLLER LEVER           | UM40B60F01   | UM10B60F01             | UM40B50F01  | (B)                    | 20<br>.705          | 1.7<br>.060       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 14,50±0,80<br>.571±.031 |
|                   |                                 | UM40D60F01   | (C)                    | UM40D50F01  | (C)                    | 40<br>1.411         | 3.5<br>.123       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 14,50±0,80<br>.571±.031 |
|                   | UML10001 SIMULATED ROLLER LEVER | (C)  | UM10B60E01             | UM40B50E01  | (B)                    | 16<br>.564          | 1.5<br>.053       | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 11,65±0,80<br>.459±.031 |
|                   |                                 | UM40D60E01   | UM10D60E01             | UM40D50E01  | UM10D50E01             | 35<br>1.234         | 3<br>.106         | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 11,65±0,80<br>.459±.031 |
|                   | UML10002 FLAT LEVER             | -----  | (A)                    | -----   | (A)                    | 10<br>.353          | 4<br>.140         | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 8,80±0,80<br>.346±.031  |
|                   |                                 | (C)  | UM10B60B01             | (C)   | (B)                    | 20<br>.705          | 1.7<br>.060       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 8,80±0,80<br>.346±.031  |
|                   |                                 | UM40D60B01   | (C)                    | UM40D50B01  | (C)                    | 40<br>1.411         | 3.5<br>.123       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 8,80±0,80<br>.346±.031  |
|                   | UML10003 FLAT LEVER             | -----  | (A)                    | -----   | (A)                    | 8<br>.282           | 0.35<br>.012      | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 8,80±0,80<br>.346±.031  |
|                   |                                 | (C)  | UM10B60C01             | (C)   | (B)                    | 16<br>.564          | 1.5<br>.053       | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 8,80±0,80<br>.346±.031  |
|                   | UM40D60C01                      | (C)  | UM40D50C01             | (C)   | (C)                    | 35<br>1.234         | 3<br>.106         | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 8,80±0,80<br>.346±.031  |
|                   |                                 | UM10004 FLAT LEVER                                   | (C)                    | UM10B60D01  | (C)                    | (B)                 | 12<br>.423        | 1.2<br>.042   | 3,50<br>.138            | 1,00<br>.039           | 1,60<br>.063            |
|                   | UM40D60D01                      | (C)  | UM40D50D01             | (C)   | (C)                    | 25<br>.882          | 2.5<br>.088       | 3,50<br>.138  | 1,00<br>.039            | 1,60<br>.063           | 8,80±1,20<br>.346±.047  |
|                   |                                 | UML10005 SIMULATED ROLLER LEVER                      | (A)                    | (A)   | (A)                    | (A)                 | 16<br>.564        | 1.5<br>.053   | 2,80<br>.110            | 0,80<br>.031           | 1,20<br>.047            |
|                   | (A)                             |  | (A)                    | (A)   | (A)                    | 35<br>1.234         | 3<br>.106         | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 14,50±0,80<br>.571±.031 |
|                   | UML10006 FLAT LEVER             | (A)  | (A)                    | (A)   | (A)                    | 6<br>.211           | 0.5<br>.018       | 8,50<br>.334  | 2,50<br>.098            | 2,20<br>.087           | 8,80±2,40<br>.346±.094  |
| (A)               |                                 | (A)  | (A)                    | (A)   | 15<br>.529             | 1.0<br>.036         | 8,50<br>.334      | 2,50<br>.098  | 2,20<br>.087            | 8,80±2,40<br>.346±.094 |                         |
| LONG LIFE VERSION | PIN PLUNGER                     | (C)  | (C)                    | UM50E50A01  | UM10E50A01             | 150<br>5.291        | 20<br>.705        | 0,60<br>.024  | 0,10<br>.004            | 0,40<br>.016           | 8,40±0,30<br>.331±.012  |
|                   | UML10000 ROLLER LEVER           | (C)  | (C)                    | UM50E50F01  | (C)                    | 60<br>2.116         | 4,0<br>.141       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 14,50±0,80<br>.571±.031 |
|                   | UML10001 SIM ROLLER LEVER       | UM50E60E01   | UM10E60E01             | UM50E50E01  | UM10E50E01             | 55<br>1.940         | 3.5<br>.123       | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 11,65±0,80<br>.459±.031 |
|                   | UML10002 FLAT LEVER             | UM50E60B01   | (C)                    | UM50E50B01  | UM10E50B01             | 60<br>2.116         | 4,0<br>.141       | 2,50<br>.098  | 0,50<br>.020            | 0,80<br>.031           | 8,80±0,80<br>.346±.031  |
|                   | UML10003 FLAT LEVER             | UM50E60C01   | (C)                    | UM50E50C01  | (C)                    | 55<br>1.940         | 3.5<br>.123       | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 8,80±0,80<br>.346±.031  |
|                   | UML10004 FLAT LEVER             | (C)  | (C)                    | UM50E50D01  | (C)                    | 45<br>1.587         | 3,0<br>.106       | 3,50<br>.138  | 1,00<br>.039            | 1,60<br>.063           | 8,80±1,20<br>.346±.047  |
|                   | UML10005 SIM ROLLER LEVER       | (A)  | (A)                    | (A)   | (A)                    | 55<br>1.940         | 3.5<br>.123       | 2,80<br>.110  | 0,80<br>.031            | 1,20<br>.047           | 10,70±0,80<br>.421±.031 |
|                   | UML10006 FLAT LEVER             | (A)  | (A)                    | (A)   | (A)                    | 20<br>.705          | 1.0<br>.036       | 8,50<br>.334  | 2,50<br>.098            | 2,20<br>.087           | 8,80±2,40<br>.346±.094  |

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| DIM.         | TOL.  | DIM.        | TOL.  |
|--------------|-------|-------------|-------|
| NO PLACES    | X     | mm          | mm/10 |
| ONE PLACE    | X.X   | mm/10       | X.X   |
| TWO PLACES   | X.XX  | 0.01/0.016  | X.XX  |
| THREE PLACES | X.XXX | 0.001/0.006 | X.XXX |
| ANGLES       |       |             |       |

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WEIGHT