

Honeywell Sensing and Control

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UM50E50A01



Actual product appearance may vary.

UM Series Subminiature Basic Switch, Single Pole Double Throw (SPDT), 250 Vac, 5 A, Pin Plunger Actuator, PCB Straight Right Angle Termination

Choice of low energy or power duty electrical ratings (gold or silver contacts) Form C singlepole double-throw (SPDT) circuitry

Rated to 10 A Choice of actuation, termination and operating characteristics

Potential Applications

Appliances Vending machines Timing devices Office equipment Computer/business equipment Test instruments Medical/dental equipment Communications equipment HVAC equipment Manually operated devices Valves

Description

MICRO SWITCH™ UM Series subminiature basic switches are used for simple or precision ON/OFF application needs. The MICRO SWITCH™ UM Series switches ε , slightly larger than the MICRO SWITCH™ UX Series switches. These switches combine small size and light weight with ample electrical capacity, low cost and

Supporting Documentation

Dimensions

Engineering Drawing

Switch Type MICRO SWITCH™ Subminiature 1.2,7 mm H x 8,35 mm W x 20.3 mm L [0.5 in H x 0.25 in W x 0.8 in L] Sealed No Ampere Rating 5 A Circuitry Single Pole Double Throw (SPDT) Actuator Pin Plunger Termination PCB Straight Right Angle Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE, CSA, UL, SEMKO, VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pertravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.12 mm] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers	Product Specifications	
Ampere Rating 5 A Circuitry Single Pole Double Throw (SPDT) Actuator Pin Plunger Termination PCB Straight Right Angle Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Height 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches	Switch Type	12,7 mm H x 6,35 mm W x 20,3 mm L [0.5 in H x 0.25 in W x 0.8
Circuitry Single Pole Double Throw (SPDT) Actuator Pin Plunger Termination PCB Straight Right Angle Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 - 1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Length 19,8 mm [0.78 in]	Sealed	No
Actuator Pin Plunger Termination PCB Straight Right Angle Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Length 19,8 mm [0.78 in] <tr< td=""><td>Ampere Rating</td><td>5 A</td></tr<>	Ampere Rating	5 A
Termination PCB Straight Right Angle Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Length 19,8 mm [0.78 in] Availability Global <tr< td=""><td>Circuitry</td><td>Single Pole Double Throw (SPDT)</td></tr<>	Circuitry	Single Pole Double Throw (SPDT)
Operating Temperature Range -25 °C to 85 °C [-13 °F to 185 °F] Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches	Actuator	Pin Plunger
Voltage 250 Vac Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches	Termination	PCB Straight Right Angle
Approvals CE,CSA,UL,SEMKO,VDE Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches	Operating Temperature Range	- 25 °C to 85 °C [-13 °F to 185 °F]
Contact Type Silver Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Voltage	250 Vac
Operating Force (O.F.) 1,47 N [5.3 oz] max. Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches	Approvals	CE,CSA,UL,SEMKO,VDE
Release Force (R.F.) 0,20 N [0.705 oz] min. Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905	Contact Type	Silver
Pretravel (P.T.) 0,6 mm [0.024 in] max. Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Operating Force (O.F.)	1,47 N [5.3 oz] max.
Overtravel (O.T.) 0,4 mm [0.016 in] min. Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Release Force (R.F.)	0,20 N [0.705 oz] min.
Differential Travel (D.T.) 0,1 mm [0.004 in] max. Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in ± 0.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Pretravel (P.T.)	0,6 mm [0.024 in] max.
Operating Position (O.P.) 8,4 mm ± 0,3 mm [0.331 in 0.012 in] ± Housing Material PBT Polyester Thermoplastic CE mark 61058 - 1	Overtravel (O.T.)	0,4 mm [0.016 in] min.
O.012 in] Housing Material PBT Polyester Thermoplastic CE mark 61058 - 1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 Snap switches 1005 UNSPSC Commodity 30211905 Snap switches 1005 Code 1005 Code	Differential Travel (D.T.)	0,1 mm [0.004 in] max.
CE mark 61058 -1 UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Operating Position (O.P.)	
UL File # E12252 CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Housing Material	PBT Polyester Thermoplastic
CSA File # LR23413M167 Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	CE mark	61058 -1
Agency Approvals and Standards 1054 Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	UL File #	E12252
Mounting Screw Size 2,3 mm [0.09 in] Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	CSA File #	LR23413M167
Mounting Centers 9,65 mm [0.38 in] Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Agency Approvals and Standards	1054
Maximum Tightening Torque 0,29 N m [2.6 in lb] Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Mounting Screw Size	2,3 mm [0.09 in]
Weight 0,2 g [0.007 oz] Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Mounting Centers	9,65 mm [0.38 in]
Package Height 10,9 mm [0.43 in] Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Maximum Tightening Torque	0,29 N m [2.6 in lb]
Package Width 6,35 mm [0.25 in] Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Weight	0,2 g [0.007 oz]
Package Length 19,8 mm [0.78 in] Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Package Height	10,9 mm [0.43 in]
Availability Global UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Package Width	6,35 mm [0.25 in]
UNSPSC Code 30211905 UNSPSC Commodity 30211905 Snap switches	Package Length	19,8 mm [0.78 in]
UNSPSC Commodity 30211905 Snap switches	Availability	Global
	UNSPSC Code	30211905
Series Name UM	UNSPSC Commodity	30211905 Snap switches
	Series Name	UM

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