

GENERAL-PURPOSE MICRO SWITCHES S SERIES

Features

- Choice of actuator styles
- 3 terminal types (contact us for optional screw terminals available)
- 3 contact arrangements
- Long-life coil spring mechanism
- High-temperature 150°C and 200°C available on selected models
- 30A model available on request

Definitions of Operating Characteristics

OF	Operating Force
RF	Releasing Force
OT	Overtravel
TT	Total Travel
PT	Pretravel
MD	Movement Differential
OP	Operating Position

Specifications

Electrical

Electrical Rating: 15A, 125/250VAC; 3/4HP, 125VAC 1-1/2HP, 250VAC
2A 48VDC

Service Life: Electrically 5 x 10⁵, Mechanically 1 x 10⁶

Temperature Rating: 105°C Std. (150°C and 200°C optional)

Flammability Rating: UL94-V0

Materials

Case: General Purpose Phenolic

Actuating Button: Thermoplastic Nylon

Terminals: Brass

Moving Blade: Brass

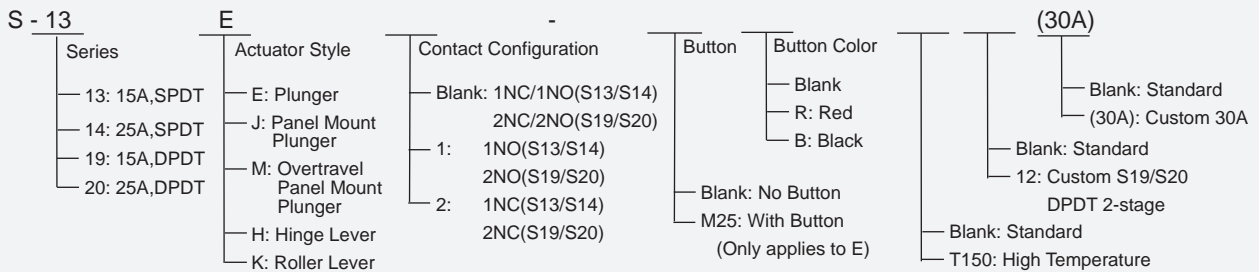
Spring: Stainless Steel

Auxiliary Actuators: Cold-Rolled Steel (Nickel-Plated)

Roller: Sintered Stainless Steel

Contacts: Silver-Cadmium Oxide

Selection Guide:



*Button color and shape can be customized

GENERAL-PURPOSE MICRO SWITCHES S13 SERIES

Dimensions Unit: mm

<p>S-13E</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OT(Min):</td> <td>2.54mm(0.100inch)</td> </tr> <tr> <td>OF(Max):</td> <td>425g</td> </tr> <tr> <td>PT(Max):</td> <td>1.27mm(0.050inch)</td> </tr> <tr> <td>MD(Max):</td> <td>0.38mm(0.015inch)</td> </tr> <tr> <td>OP:</td> <td>7.24±0.51mm(0.285±0.020inch)</td> </tr> </table>	OT(Min):	2.54mm(0.100inch)	OF(Max):	425g	PT(Max):	1.27mm(0.050inch)	MD(Max):	0.38mm(0.015inch)	OP:	7.24±0.51mm(0.285±0.020inch)	<p>S-13H</p> <p>Operating Characteristics</p> <table border="0"> <tr> <td>OT(Min):</td> <td>4.75mm(0.187inch)</td> </tr> <tr> <td>OF(Max):</td> <td>100g</td> </tr> <tr> <td>PT(Max):</td> <td>6.35mm(0.250inch)</td> </tr> <tr> <td>MD(Max):</td> <td>2.36mm(0.093inch)</td> </tr> <tr> <td>OP:</td> <td>7.93±1.57mm(0.312±0.062inch)</td> </tr> </table>	OT(Min):	4.75mm(0.187inch)	OF(Max):	100g	PT(Max):	6.35mm(0.250inch)	MD(Max):	2.36mm(0.093inch)	OP:	7.93±1.57mm(0.312±0.062inch)
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GENERAL-PURPOSE MICRO SWITCHES S14 SERIES

Dimensions Unit: mm

S-14E

Operating Characteristics

OT(Min):	1.27mm(0.050inch)
OF(Max):	850g
MD(Max):	0.38mm(0.015inch)
PT(Max):	2.54mm(0.100inch)
OP:	6.3±0.66mm(0.248±0.026inch)

S-14H

Operating Characteristics

OT(Min):	3.81mm(0.150inch)
OF(Max):	285g
MD(Max):	1.27mm(0.050inch)
PT(Max):	7.93mm(0.312inch)
OP:	11.89±1.57mm(0.468±0.062inch)

S-14J

Operating Characteristics

OT(Min):	1.27mm(0.050inch)
OF(Max):	850g
MD(Max):	0.38mm(0.015inch)
PT(Max):	2.54mm(0.100inch)
OP:	16.08±0.76mm(0.633±0.030inch)

S-14K

Operating Characteristics

OT(Min):	3.30mm(0.130inch)
OF(Max):	285g
MD(Max):	1.14mm(0.045inch)
PT(Max):	8.84mm(0.348inch)
OP:	21.84±1.57mm(0.860±0.062inch)

S-14M

Operating Characteristics

OT(Min):	4.27mm(0.168inch)
OF(Max):	850g
MD(Max):	0.38mm(0.015inch)
PT(Max):	2.54mm(0.100inch)
OP:	19.69±0.76mm(0.775±0.030inch)

S-14E-M25R

Operating Characteristics

OT(Min):	1.27mm(0.050inch)
OF(Max):	850g
MD(Max):	0.38mm(0.015inch)
PT(Max):	2.54mm(0.100inch)

GENERAL-PURPOSE MICRO SWITCHES S19 SERIES

Dimensions Unit: mm

S-19E
Operating Characteristics

OF(Max): 850g	OT(Min): 2.03mm(0.080inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 7.24±0.76mm(0.285± 0.030inch)

S-19H
Operating Characteristics

OF(Max): 205g	OT(Min): 4.75mm(0.187inch)
PT(Max): 6.99mm(0.275inch)	MD(Max): 2.36mm(0.093inch)
	OP: 7.92±1.57mm(0.312± 0.062inch)

S-19J
Operating Characteristics

OF(Max): 850g	OT(Min): 2.03mm(0.080inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 17.02±0.76mm(0.670± 0.030inch)

S-19K
Operating Characteristics

OF(Max): 212g	OT(Min): 4.75mm(0.187inch)
PT(Max): 6.35mm(0.250inch)	MD(Max): 2.36mm(0.093inch)
	OP: 18.24±1.57mm(0.718± 0.062inch)

S-19M
Operating Characteristics

OF(Max): 850g	OT(Min): 5.54mm(0.218inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 20.62±0.76mm(0.812± 0.030inch)

S-19E-M25R
Operating Characteristics

OF(Max): 850g	OT(Min): 5.54mm(0.218inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 20.62±0.76mm(0.812± 0.030inch)

Note #1:
2NO OR 2NC is available as request, please add "1" or "2" after the model number
Example S-19E1: 2NO
S-19E2: 2NC

Note #2:
With respect to operating sequence, pole 1 or 2 may operate first(virtually same time). If pole 1 or 2 must always operate in a particular sequence please add "-12" as the suffix for 2-stage contacts.

GENERAL-PURPOSE MICRO SWITCHES S20 SERIES

Dimensions Unit: mm

S-20E
Operating Characteristics

OF(Max): 1280g	OT(Min): 1.27mm(0.050inch)
PT(Max): 2.54mm(0.100inch)	MD(Max): 0.38mm(0.015inch)
	OP: 6.30±0.76mm(0.248± 0.030inch)

S-20H
Operating Characteristics

OF(Max): 425g	OT(Min): 3.96mm(0.156inch)
PT(Max): 8.38mm(0.330inch)	MD(Max): 20.85mm(0.821inch)
	OP: 11.89±1.57mm(0.468± 0.062inch)

S-20J
Operating Characteristics

OF(Max): 1280g	OT(Min): 1.27mm(0.050inch)
PT(Max): 2.54mm(0.100inch)	MD(Max): 0.38mm(0.015inch)
	OP: 16.00±0.76mm(0.630± 0.030inch)

S-20K
Operating Characteristics

OF(Max): 425g	OT(Min): 3.96mm(0.156inch)
PT(Max): 8.84mm(0.348inch)	MD(Max): 1.14mm(0.045inch)
	OP: 21.84±1.57mm(0.860± 0.062inch)

S-20M
Operating Characteristics

OF(Max): 850g	OT(Min): 5.54mm(0.218inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 20.62±0.76mm(0.812± 0.030inch)

S-20E-M25R
Operating Characteristics

OF(Max): 850g	OT(Min): 5.54mm(0.218inch)
PT(Max): 1.27mm(0.050inch)	MD(Max): 0.38mm(0.015inch)
	OP: 20.62±0.76mm(0.812± 0.030inch)

Note #1:
2NO OR 2NC is available as request, please add "1" or "2" after the model number
Example S-20E1: 2NO
S-20E2: 2NC

Note #2:
With respect to operating sequence, pole 1 or 2 may operate first(virtually same time). If pole 1 or 2 must always operate in a particular sequence please add "-12" as the suffix for 2-stage contacts.