SERIES 16, 26 \& 18 - MICROSWITCH

## SERIES 16 \& 26 FEATURES

- Form Z contacts - to cover all switching requirements
- Snap action - for positive switching
- Solder terminals - for superior electrical contact
- Choice of contacts - gold and silver
- Choice of actuators - to fit many applications


## NON-STANDARD OPTIONS

- PCB and solder/faston terminals
- Other contact forms X, Y \& C
- Custom brackets and levers
- Special operating forces


## SERIES 18 FEATURES

- Form Z contact - covers all switching requirements
- Snap action - uses high integrity butterfly action
- Solder terminals - for superior electrical contact
- Gold plated contacts and terminals - for all applications
- Diaphyll phalate body - wide temperature range
- Various actuators available - to assist in application

NON-STANDARD OPTIONS

- PCB terminals
- Custom brackets and actuators


## Series 16 \& 26 - Technical Information

## Description

Non-Standard Options

## Mechanical

Electrical

## Environmental \& Physical

The series 16 is a popular microswitch offering the unique self cleaning butterfly action. The centrally positioned actuating button offers the ability to mount easily into a pushbutton switch, something that ITW Switches has taken advantage of by incorporating the microswitch in our series 76-94 and flexibutton. The series comes with gold or silver contacts and solder terminals as standard. PCB, solder/faston terminals, choice of contact forms and custom brackets and actuators are available as non-standard options. A two pole version is available in the form of the series 26. Switches also have UL, CSA and MII-Specification approvals according to the version.

## Features

| - Form Z contacts - to cover all switching | - Choice of contacts - gold and silver |
| :--- | :--- |
| requirements | - Choice of actuators - to fit many |
| - Snap action - for positive switching | applications |
| - Solder terminals - for superior electrical |  |
| contact |  |


| Pretravel | $1,27 \mathrm{~mm}$ |
| :--- | :--- |
| Overtravel | $0,15 \mathrm{~mm}(\mathrm{~min})$ |
| Movement differential | $0,5 \mathrm{~mm}$ (nominal) |
| Operating point | $10,31 \mathrm{~mm} \pm 0.40 \mathrm{~mm}$ (series 16 ) |
|  | $10,05 \mathrm{~mm} \pm 0,35 \mathrm{~mm}$ (series 26) |
| Life (min) | $10^{7}$ cycles |
| Operating force | $2,2 \mathrm{~N}$ (series 16$) ; 4,5 \mathrm{~N}$ (series 26) |


| Current (max) silver contacts | 10 A resistive 250 VAC (series 16) |
| :--- | :--- |
|  | 8 A resistive 250 VAC (series 26) |
| Current (min) silver contacts | 10 mA resistive 5 VDC (series 16, 26) |
| Life (min) | 100,000 cycles at $20^{\circ} \mathrm{C}$ |
|  | 50,000 cycles at $70^{\circ} \mathrm{C}$ |
| Dielectric strength (min) | $1 \mathrm{KVAC}, 1$ minute |
| Insulation resistance (min) | $1 \mathrm{G} \Omega$ at 500 VDC |
| Contact resistance (max. initial) | $25 \mathrm{~m} \Omega$ |


| Ingress protection | Equivalent to IP40 |
| :--- | :--- |
| Shock (min) | 50 g |
| Temperature (ambient) | $-55^{\circ} \mathrm{C}$ to $+135^{\circ} \mathrm{C}$ |

Series 16 \& 26 - Ordering Information

## Ordering Information

2 Pole Version

| Part Number | Description |
| :--- | :--- |
| $16-4044$ | 10 A, silver contacts, solder terminals through the bottom <br> of the case |
| $16-40441$ | 5A, gold contacts, solder terminals through the bottom of <br> the case |
| $16-488051$ | 10A, gold contacts, MIL-SPEC approved, solder terminals <br> through the bottom of the case |
| $16-104$ | 10 A, silver contacts, solder terminals through the side of <br> the case |
| $16-304$ | 10 A, silver contacts, solder terminals through the front of <br> the case |
| $26-804$ | 2 pole, 8 A, silver contacts, solder terminals through the <br> side of the case |
| $26-904$ | 2 pole, 8 A, silver contacts, solder terminals through the <br> front of the case |


| Part Number | Actuators |
| :--- | :--- |
| $76-1210 /^{*}$ | Standard leaf lever |
| $76-1200$ / $^{*}$ | Standard roller lever |
|  |  |

Substitute * for switch part number to be fitted
e.g. 76-1200 fitted to 16-4044 $=76-1200 / 4044$.

These are standard parts for this series. If you should require a non-standard option
please contact the Sales Office.

The 2 pole version is available in the form of the series 26 . This has the same self cleaning butterfly action as the series 16, but has a higher operating force due to switching a number of poles. Applications for these include requirements for auxiliary back up switches for additional safety and the need for a switch with a high operating force to safeguard against accidenta actuation. Similar to the series 16 , the 26 can be used as the switching mechanism in the 76-94 pushbutton range.

## Actuation Information

Series 16 \& 26 - Technical Information

## Contact Loading



PCB Pin Layout
(viewed from either side)

## Circuit Form

Application references for both Series 16 \& 18

| Series 26 |
| :--- |
| - Process control limit switching <br> - Aerospace applications <br> $\bullet$ Telecommunications |

## Series 18 - Technical Data

## Description

Features

Non-Standard Options

Mechanical

## Electrical

## Environmental \& Physical

Actuation Information

SERIES 16, 26 \& 18
Microswitch

## Series 18 - Ordering Information

## Ordering Information

| Part Number | Description |
| :--- | :--- |
| $18-40421$ | 2A, gold contacts, solder terminals through the bottom of <br> the case |
| $18-488051$ | 8 A, gold contact, MIL-SPEC approved, solder terminals <br> through the bottom of the case |


| Part Number | Actuators |
| :--- | :--- |
| $78-3000 /^{*}$ | Standard leaf lever |
| $78-3100 /^{*}$ | Standard roller lever |
| Ster |  |

Substitute * for switch part number to be fitted,
e.g. 78-3000 fitted to $18-40421=78-3000 / 40421$.

These are the standard parts for this series. If you should require a non-standard option please contact the Sales Office.

## Product Drawings



PCB Pin Layout
(viewed from either side)

Circuit Form


## For further information on our complete range of switch products, please contact the Sales

 Office.
## ${ }_{I T W}$ Switches

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Due to our policy of continuous product development, ITW Switches retain the right to change the specification at any time without prior notice

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