

# ABOUT CROUZET SWITCHES

With over 60 years involvement in highly demanding markets where security and reliability are requested, Crouzet Switches, specialist in snap-action electrical switching brings peace of mind to design engineers through expert product support, in-depth knowledge of application design constraints and related standards and approvals issues.

Crouzet Switches is a brand of InnoVista Sensors™.

### MARKETS

Crouzet Switches has worked for decades with customers who design products for highly technical applications that demand superior quality, reliability and meet national and international regulatory standards. Crouzet's switches and sensors are utilized in a wide spectrum of applications in the following markets:

- › Industrial Valve & Pumps
- › Nuclear Industry
- › Energy Distribution
- › Trains
- › Specialty vehicles



InnoVista Sensors™: your trusted partner of choice to face industrial challenges of today and tomorrow.

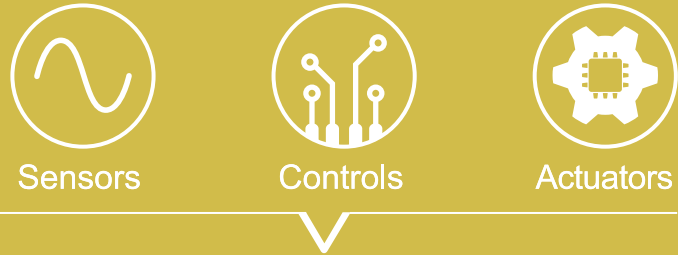
InnoVista Sensors™ is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through its brands, Crouzet Aerospace, Crouzet Automation, Crouzet Control, Crouzet Motors, Crouzet Switches and Systron Donner Inertial, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defence, Transportation and Industrial market and segments.

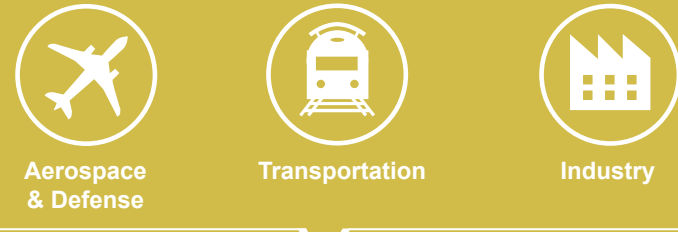
Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

[www.innovistasensors.com](http://www.innovistasensors.com)

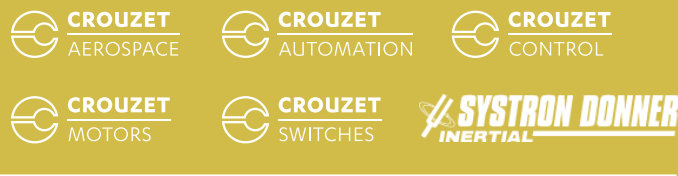
### Designs & Manufactures



### For



### With commercial brands



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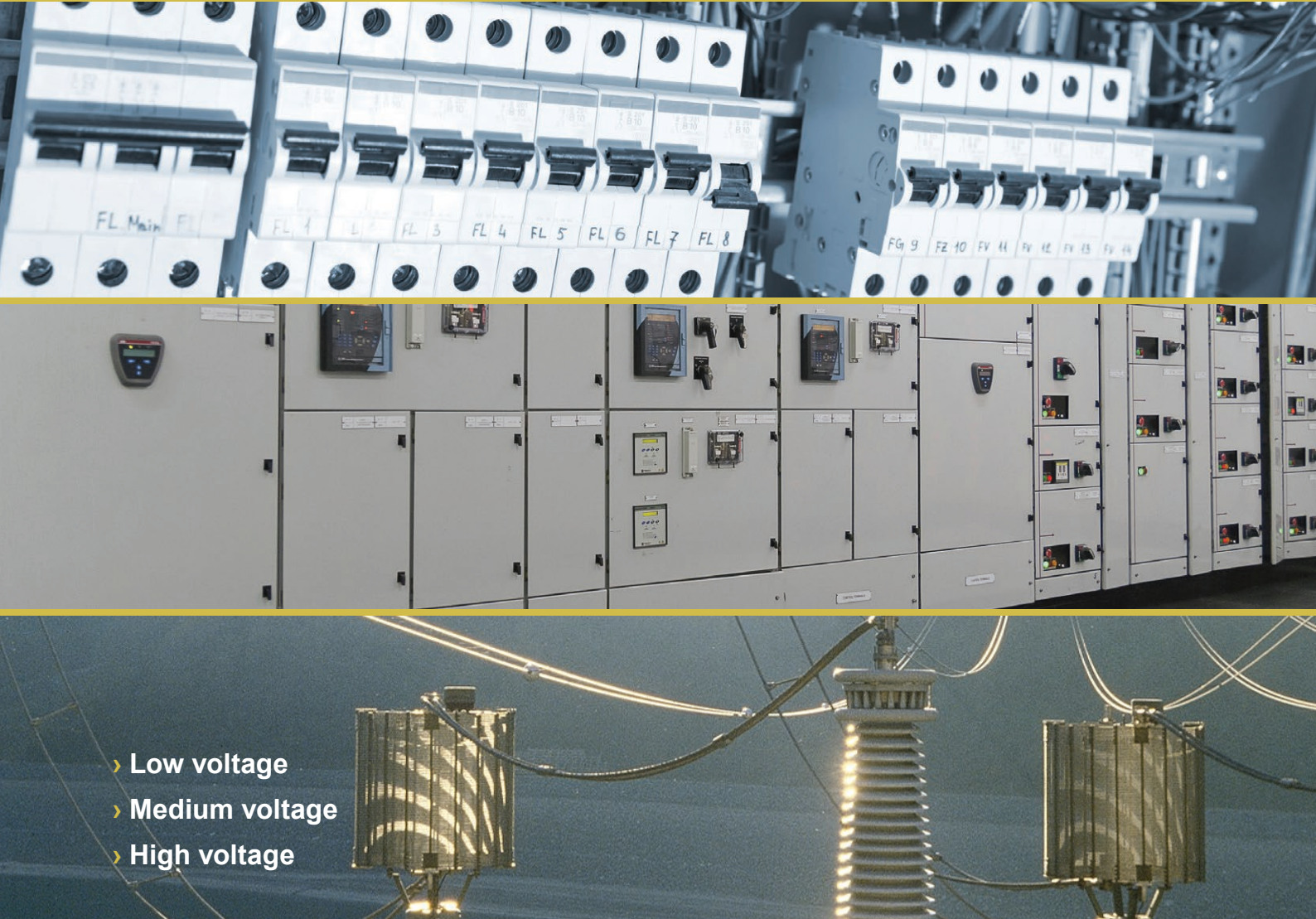
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# MICROSWITCHES FOR ELECTRICAL EQUIPMENT



- › Low voltage
- › Medium voltage
- › High voltage

Ref.: 67231188-EN | 05/2016 - Photos: Ginko, Daniel Lattard, Schneider Electric, Polynotes





Crouzet Switches' microswitches, installed in various electrical equipment devices (disconnectors, circuit breakers, fuse holders, etc), act as an auxiliary contact, perform signaling or send information when there is a change of electrical state. They can be used to inform maintenance operators or supervision centers of the equipment status.

Whether integrated in high, medium or low voltage equipment, Crouzet Switches'

microswitches are reliable and ensure operational safety and reliability of the installed equipment throughout its lifetime.

Depending on the switched currents and safety levels required, our products meet the technical requirements and comply with the standards relating to electrical equipment (magnetic blow-out, positive opening, UL/CCC approvals).

# ADAPTATION WHEEL

Crouzet Switches has developed extensive expertise in adapting its products based on standard ranges, including the necessary project planning skills when it involves a new program.

## SPECIAL PRODUCT

From the very start of a project, Crouzet Switches' experts work closely with your teams to develop the specifications. All our design, industrialization and approval expertise go into developing detection solutions that are tailored to your requirements.

## STANDARD PRODUCT

A full range of microswitches, limit switches, manually operated switches and sensors, are immediately available so that you can design your system as quickly as possible.

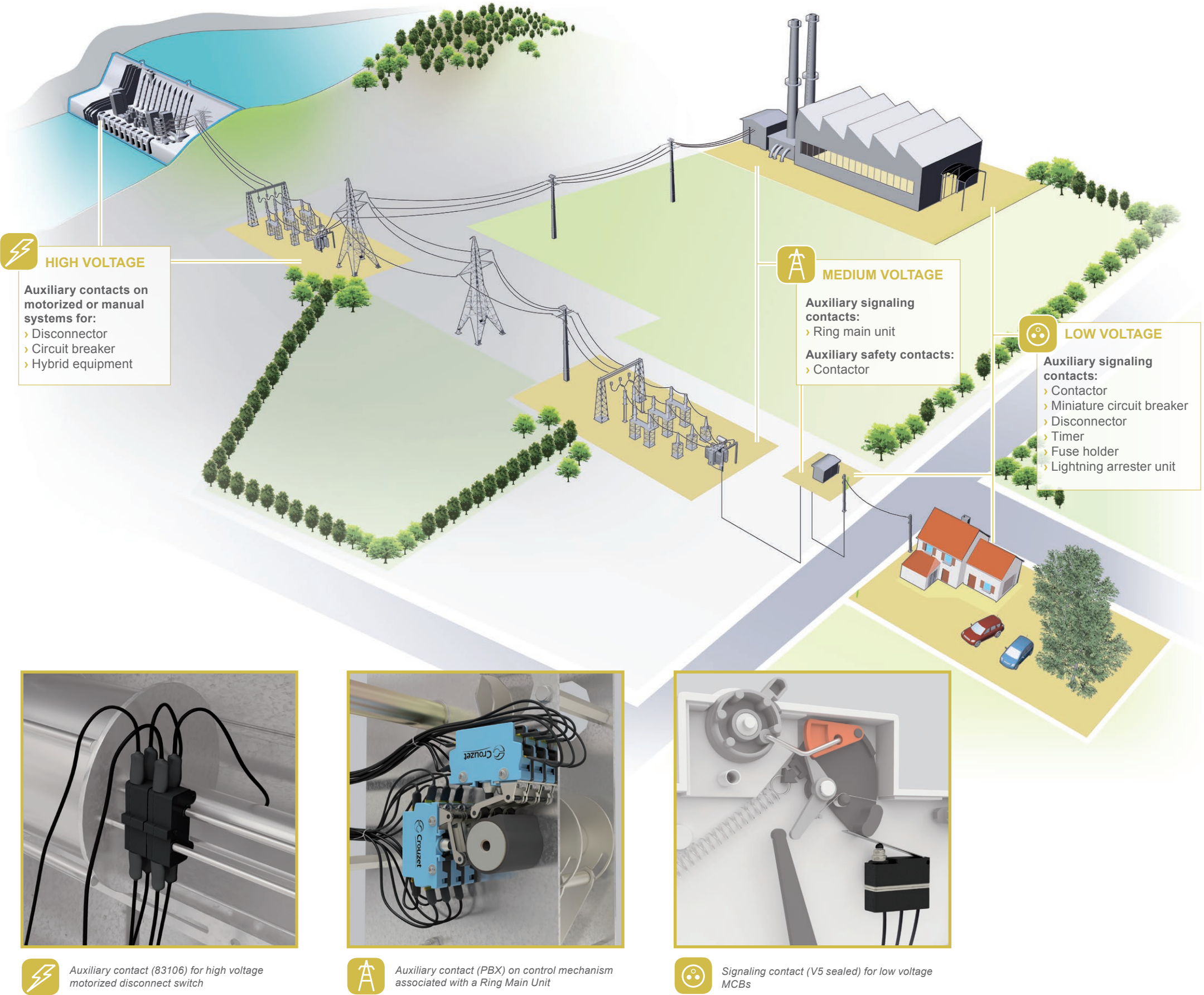
## ADAPTED PRODUCT

Complete coordination between your project teams and our specialists, these adapted products have exactly the right levels of performance and functionality you need for your applications.

## PRODUCT WITH ADDED VALUE

All our standard products can have additional factory-mounted auxiliaries or accessories, including connectors, leads, special terminals, fixings, levers, etc. Seamless integration into your equipment means you benefit from simpler logistics and optimum installation reliability.

# THE CROUZET SWITCHES OFFER TO THE ELECTRICAL EQUIPMENT MARKET



## SELECTION OF SNAP-ACTION MICROSWITCHES

	<b>83106 - Miniature, Operating force 0.5 to 4N, IP67 Protection</b> <ul style="list-style-type: none"><li>› Max. rating 10 A 250 VAC</li><li>› Quick connect terminal output &amp; lead output optional</li><li>› 4 mm &amp; 7 mm width flat lever optional</li></ul>	*
	<b>83106 - Double break, Momentary or Maintained action</b> <ul style="list-style-type: none"><li>› Max. rating 10 A 250 VAC</li><li>› Double break changeover switch (SPDT-form Za)</li><li>› Multipole versions on metal plates</li><li>› Wide choice of actuators for symmetrical mounting</li></ul>	*
	<b>83154 - Double break, High DC rating</b> <ul style="list-style-type: none"><li>› Max. rating 5 A 250 VDC</li><li>› Double break changeover switch (SPDT-form Za) with magnetic blow-out</li><li>› Multipole versions on metal plates</li><li>› Wide choice of actuators</li></ul>	*
	<b>PBX 8324 - Double break, Positive opening</b> <ul style="list-style-type: none"><li>› Max. rating 10 A 250 VAC</li><li>› Double break changeover switch (SPDT-form Zb) with positive break operation. Separate NO/NC circuits</li><li>› IP65/IP67 sealed version, Low level version</li><li>› Tag terminals or lead outputs. Levers. Mounting plates</li></ul>	*
	<b>V3 83161 &amp; 83160 - Miniature, Operating force 0.15 to 5 N</b> <ul style="list-style-type: none"><li>› Max. rating 20 A 250 VAC</li><li>› Dual-current version 1 mA 4 VDC to 5 A 250 VAC</li><li>› High DC rating version with magnetic blow-out</li><li>› Version with positive break operation</li><li>› Extensive choice of actuators, multiposition fitting options</li></ul>	*
	<b>V4 83170 - Subminiature, Operating force 0.6 to 2.2 N</b> <ul style="list-style-type: none"><li>› Max. rating 12 A 250 VAC</li><li>› Dual-current version 1 mA 4 VDC to 5 A 250 VAC</li><li>› Mushroom-head button version for multidirectional actuation up to 45°</li><li>› Extensive choice of actuators, 2 fitting positions</li></ul>	*
	<b>V4S 8318 - Subminiature, IP67 Sealed</b> <ul style="list-style-type: none"><li>› Max. rating 10 A 250 VAC</li><li>› Dual-current version 1 mA 4 VDC to 5 A 250 VAC</li><li>› Easy installation versions</li><li>› Tag terminals or lead/cable outputs</li><li>› Extensive choice of actuators, 2 fitting positions</li></ul>	*
	<b>V5S 8320 - Sub-subminiature, IP67 Sealed</b> <ul style="list-style-type: none"><li>› Maximum rating 4 A 250 VAC</li><li>› Low level version 1 to 50 mA 4 to 14 V</li><li>› Long overtravel: &gt; 2 mm</li><li>› Multidirectional actuation up to 45°</li><li>› Tag terminals or lead outputs</li></ul>	*
	<b>Special microswitches: the optimum response</b> <ul style="list-style-type: none"><li>› Products developed to specification</li><li>› Fully integrated in the application</li><li>› Characteristics adapted to meet requirements</li><li>› Built-in terminal block</li><li>› Tried and tested or innovative mechanisms</li></ul>	

\* Approval pending