

Switches and Sensors Product Selection Guide



■ Microswitches



■ Limit Switches



■ Trim Switches and Proximity Sensors

www.crouzet.com





Who are we?



Founded in 1921, Crouzet has earned a respected reputation for providing snap-action technology solutions to a wide range of industries. Its extensive product range includes high performance micro, limit, trim and proximity switches for precision switching

and detection. To ensure optimum quality, all components are manufactured at facilities in compliance with EN 9100, ISO 9001, ISO 14001, ISO/TS 16949 and ISO 17925 standards. Crouzet is committed to supporting a greener environment by utilizing materials and processes that are environmentally friendly.

Crouzet is a Custom Sensors & Technologies (CST) brand.

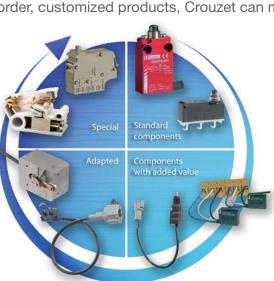
I Markets

Crouzet 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 including:

- Valves and actuators
- Nuclear
- Electrical switchgears
- Railway
- Specialty vehicles
- Aerospace and defense

Mission

Crouzet has become well-known for customizing products to meet unique customer needs while complying with the most rigorous quality demands. The resulting product solution optimizes both technical features and cost. This is made possible with Crouzet's broad selection of fully featured standard products and expert capabilities in not only adapting these products to match exacting specifications, but also in developing completely customized designs. From standard products enhanced with factory mounted accessories and auxiliaries to fully, built-to-order, customized products, Crouzet can meet your requirements.





History in the USA

Crouzet started operations in the
United States in 1978, with worldwide
headquarters in France. That presence
has been reinforced with major
acquisitions and the incorporation of
Custom Sensors & Technologies in 2005.
Crouzet's USA Switches and Sensors
division is based in Illinois. With an
extensive network of Regional Sales
Engineers, Application Engineers,
Partners and US based warehouse,
Crouzet is well equipped to service
customers throughout the United States,
Canada and beyond.

Microswitches and Limit Switches

	Microswitches										
	Miniature								Subminiature	e	
	Janes Company	u 11		1 343		:44	17 13	0			
Part Number	PBX 83240	83139	83123	V3S 83169	83154	83106	V3 83160/260 83161/261	V4S 83180	83133	V4 83170/270	V: 83
Premium features											
Max Rating @ 250 Vac (A)	■ 10A	A 6A	□ 5A	₽ 8A	□ 5A	5A	25A	■ 10A	□ 5A	■ 12A	1(A
Low Level version (mA)	I(mA)	I(mA)		I(mA)		I(mA)	I(mA)	I(mA)	I(mA)	I(mA)	I(r
Sealing level	₩ IP67	™ IP67	☑ IP66 IP69K	IP67 IP69K				IP67 IP69K			
Double break	₽ Zb*	₽ Za*			₽ Za*	₽ Za*			₽ Za*		
Bi-stable Push						Push			Push		
High temperature (> 257°F)							 392°F			 302°F	
Low temperature (< -40°F)	 -58°F										
Direct Opening Action											
High DC breaking / Magnetic Blowout					4		4				
Explosion-proof (Explosion-proof)		(E)									
Nuclear certified											
High Pressure Environment Up to 87 psi											
UL / cUL approval	Contact Us	Contact Us	Contact Us	.91	Contact Us	F1	FU	91	A1	A1	5

Za*: Double gap changeover contact element with 4 terminals. The contacts have the same polarity.

Zb*: Double gap changeover contact element with 4 terminals.

Proximity Sensors

Crouzet provides a complete range of proximity sensors with standard industrial features to high level performance features:

- 2 or 3 wire configuration
- 2 parts sensors integration with remote electronics
- MTBF: 300,000 hours in operation
- Temperature range: -85°F/+257°F
- Watertight or hermetic versions
- High pressure operation



Sub-Subminiature				Limit Switches									
				Heavy Duty			Miniature						
		832200 832200			300				93 993.7 17 22 33 18 23 34 18 24 18 24		(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)		COmment 574616 11 1109
5S 200	83141	83229	83151	83840	SP4522	SP 3941	83870 83880	83589	83800	83731	SP4863	SP4813	SP4816
2A	□ 1A	□ 5A	1 A	■ 10A	□ 1A	□ 1A	₽ 6A	₽ 8A	□ 5A	□ 5A	□ 1A	□ 1A	□ 1A
1A)	I(mA)	I(mA)	I(mA)		I(mA)	I(mA)	I(mA)	I(mA)	I(mA)		I(mA)	I(mA)	I(mA)
P67 P69K			Gas tight	™ IP66	Gas tight	₩ IP67	IP67 IP69K	IP67 IP69K	₩ IP65	₩ IP66 IP69K	Gas tight	Gas tight	Gas tight
				₽ Za*			₹ Zb*		⊋ Za*				
	■ 302°F		€ 482°F		₽ 482°F	482°F					₩ 482°F	₩ 482°F	
	■ -67°F	IJ -67°F	IJ -67°F		IJ -67°F						 -67°F	₩ -67°F	IJ -67°F
						(Ex)							
					*						44	**	
			X		X	×					X	X	X
7	.71	A1		Contact Us			(h)	Contact Us	(H)	Contact Us			
ho tu	a mauina aar	tooto oro ala	atrically agno	ratad									

The two moving contacts are electrically separated.

Trim Switches

Crouzet offers Trim Switches with different button shapes, a variety of electrical configurations, and optional waterproofing. These products are certified for aerospace and military applications.

General features:

- Unipolar or bipolar
- 2, 4, or 5 way
- Single or separate common
- Temperature range: -67°F to +185°F
- Waterproof option





Custom Sensors & Technologies (CST) is a specialist in sensing, control and motion products. Through its brands, BEI Kimco, BEI Sensors, BEI PSSC, Crouzet, Crydom, Kavlico, Newall and Systron Donner, CST offers customizable, reliable and efficient components for mission-critical systems in Aerospace & Defense, Transportation, Energy & Infrastructures, Commercial & Industrial OEMs, Medical, Food and Beverage and Building Management markets.

Focused on premium value offers and committed to excellence, CST, with more than 4,300 employees worldwide and sales of \$571M US in 2010, is the dependable and adaptable partner for the most demanding customers.

The Switches team worldwide







Custom Sensors & Technologies (CST) is a specialist in sensing, control and motion products.

Through its brands BEI Kimco, BEI Sensors. BEI PSSC, Crouzet, Crydom, Kavlico, Newall and Systron Donner, CST offers customizable, reliable and efficient components for mission-critical systems in Industrial, Aerospace & Defence, and Transportation markets.

Focused on premium value offers and committed to excellence, CST, with more than 4300 employees worldwide and sales of \$571M US in 2010, is the dependable and adaptable partner for the most demanding customers.

www.cstsensors.com

Distributed by:

Crouzet Automatismes SAS

2 rue du Docteur Abel - BP 59 26902 Valence CEDEX 9 **FRANCE**

www.crouzet.com

CR7 RR 48/A LIS Ref. 6723112 US 03/2011

AMERICA

SRAZIL

Custom Sensors & Technologies Crouzet Latinoamerica

Alameda Rio Negro 1030 - cj 1803 - Alphaville -Barueri SP - CEP 06454-000 BRASIL

Tel.: +55 (11) 2505 7500 Fax: +55 (11) 2505 7507

E-mail: info@cst-latinoamerica.com www.crouzet.com.br www.cst-latinoamerica.com





USA/CANADA/MEXICO

Custom Sensors & Technologies - Crouzet 7230 Hollister Avenue Goleta, CA, 93117

USA Tel.: +1 (800) 677 5311 Fax: +1 (800) 677 3865 E-mail: customer.service@us.crouzet.com www.crouzet.com

OTHER COUNTRIES Custom Sensors &

Technologies Crouzet Latinoamerica

Alameda Rio Negro 1030 - cj 1803 - Alphaville -Barueri SP - CEP 06454-000 BRASIL

Tel.: +55 (11) 4195 1834 Fax: +55 (11) 4191 9136 E-mail: info@cst-latinoamerica.com www.crouzet.com.br www.cst-latinoamerica.com

EUROPE MIDDLE EAST **AFRICA**

BELGIUM

Crouzet NV/SA Dieweg 3 B B - 1180 Uccle BELGIUM

Tel.: +32 (0) 2 462 07 30 Fax: +32 (0) 2 461 00 23 E-mail: com-be@crouzet.com www.crouzet.be

FRANCE

Crouzet Automatismes SAS 2 rue du Docteur Abel - BP 59 26902 Valence CEDEX 9 FRANCE

Tel.: +33 (0) 4 75 44 88 44 Fax: +33 (0) 4 75 55 98 03 E-mail: com-fr@crouzet.com www.crouzet.fr

Customer service

N°Indigo 0 825 333 351

N°Azur FAX 0 810 610 102

GERMANY/ AUSTRIA

Crouzet GmbH

Otto-Hahn-Str. 3, 40721 Hilden Postfach 203, 40702 Hilden DEUTSCHLAND Tel.: +49 (0) 21 03 9 80-111

Fax: +49 (0) 21 03 9 80-222 E-mail: info-direkt@crouzet.com www.crouzet.de

ITALY

Crouzet Componenti s.r.l. Via Viganò De Vizzi, 93/95 20092 Cinisello Balsamo (Mi)

ITALIA

Tel.: +39 (02) 66 599 250 Fax: +39 (02) 66 599 258 E-mail: crz-it-sensori-micro@crouzet.com www.crouzet.it

SPAIN/PORTUGAL Crouzet Ibérica

Avda. Dels Vents, 9-13 Esc.A 3ª Planta Oficina 2B 08917 Badalona

FSPAÑA Tel.: +34 (93) 484 39 70 Fax: +34 (93) 484 39 73 E-mail: es-consultas@crouzet.es www.crouzet.es

THE NETHERLANDS

Crouzet BV

Industrieweg 17 2382 NR Zoeterwoude **NEDERLAND**

Tel.: +31 (0) 71-581 20 30 Fax: +31 (0) 71-541 35 74 E-mail: com-nl@crouzet.com www.crouzet.nl

W UNITED KINGDOM Crouzet Ltd

8 Cedarwood Chineham Business Park Crockford Lane Basingstoke, Hampshire RG24 8WD

UNITED KINGDOM Tel.: +44 (0)1256 318 900 Fax: +44 (0)1256 318 901 E-mail: info@crouzet.co.uk www.crouzet.co.uk

SWITZERLAND

Crouzet AG

Gewerbepark - Postfach 56 5506 Mägenwil

SCHWEIZ
Tel.: +41(0) 62 887 30 30
Fax: +41(0) 62 887 30 40
E-mail: info-direkt@crouzet.com www.crouzet.ch

OTHER COUNTRIES

Crouzet Automatismes SAS 2 rue du Docteur Abel - BP 59

26902 Valence CEDEX 9 FRANCE

Tel.: +33 (0) 475 802 102 Fax: +33 (0) 475 448 126 E-mail: com-ex@crouzet.com www.crouzet.com

ASIA **PACIFIC**

CHINA & HONG KONG

Custom Sensors & Technologies Asia (Shanghai) Limited -Crouzet

2 Floor, Innovation Building No. 1009, Yi Shan Road Shanghai 200233 CHINA

Tel.: +86 (21) 2401 7766 Fax: +86 (21) 6249 0701 E-mail: china@cstsensors.com www.crouzet.cn www.cstsensors.com

INDIA

Custom Sensors & Technologies - Crouzet

Prestige Meridian II No. 30, 13th Floor, Unit No: 1301 & 1302 Mahatma Gandhi Road Bangalore 560 001 INDIA

Tel.: +91 (0) 80 4113 2204/05 Fax: +91 (0) 80 4113 2206 E-mail: az bangalore@crouzet.com www.crouzet.co.in www.cstsensors.com

TAIWAN & JAPAN Custom Sensors & Technologies - Crouzet

3F, No. 39, Ji-Hu Road Nei-Hu Dist. - Taipei 114 TAIWAN

Tel.: +886 (0)2 8751 6388 Fax: +886 (0)2 2657 8725 www.crouzet.com www.cstsensors.com

KOREA

Custom Sensors & Technologies - Crouzet

2F, Jeil Bldg. 94-96 Younadeunapo-dona 7-ga Youngdeungpo-gu Seoul 150-037 SOUTH KOREA Tel.: +82 (0)2 2629 8312

Fax: +82 (0)2 2629 8310 F-mail: korea@cstsensors.com www.crouzet.com www.cstsensors.com

SOUTH EAST ASIA & PACIFIC

Custom Sensors & Technologies - Crouzet

3F, No. 39, Ji-Hu Road Nei-Hu Dist. - Taipei 114 TAIWAN

Tel.: +886 (0)2 8751 6388 Fax: +886 (0)2 2657 8725 E-mail: eap@cstsensors.com www.crouzet.com www.cstsensors.com

Warning:
The product information contained in this catalogue is given purely as information and does not constitute a representation, warrantly or any form of contractual commitment. CROUZET Automatismes and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsability of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our wemanty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circulas or assembles, or any other unsuitable material or substance) which has not been expressly agreed by us prior to has not been expressly agreed by us prior to the sale of our products.

Creation-Design: Cia Communications, Inc. Editing-Publishing: Cia Communications, Inc., Crouzet Automatismes Photos-Graphics: Ginko, Daniel Lattard, Michael Damkier, Schneider Electric, Shutterstock, Fotolia Printina:

