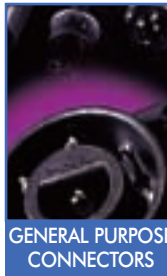
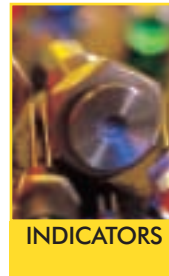


PRODUCT SECTIONS**BATTERY
HOLDERS****BUCCANEER
900 SERIES****BUCCANEER
STANDARD****BUCCANEER
MINI****BUCCANEER
400 SERIES****BUCCANEER
ETHERNET****BUCCANEER
USB****IEC
CONNECTORS****DISTRIBUTION
UNITS****POLY SNAP****MAINS FILTERS****CORDSETS****GENERAL PURPOSE
CONNECTORS****FUSEHOLDERS****INDICATORS****SWITCHES****BULGIN COMPONENTS****Bulgin Components PLC**

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ETHERNET BUCCANEER



IP68 sealed connector system for Ethernet networks, incorporating standard RJ45 connectors.

Pages: 36-39

400 SERIES BUCCANEER



Dust and waterproof to IP68 the 400 Series is the smallest of the Buccaneer range.

Pages: 32-35

C19 AND C20 HIGH CURRENT CONNECTORS



High current IEC C19 cable connector and C20 panel mounting inlets, up to 20 amp current rating.

Pages: 59

WHITE IEC INLETS



IEC mains connectors now also available moulded in white.

Pages: 45-68

USB BUCCANEER

IP68 sealed USB connector for computer and peripheral applications.

Pages: 40-43

**IP67 SEALED BATTERY HOLDERS**

Battery holders with front panel sealing to IP67 for AA, C and D size cells.

Page: 9

**COLOURED INSERTS FOR BUCCANEER**

Standard Buccaneer with coloured contact inserts and gland nuts for easy identification.

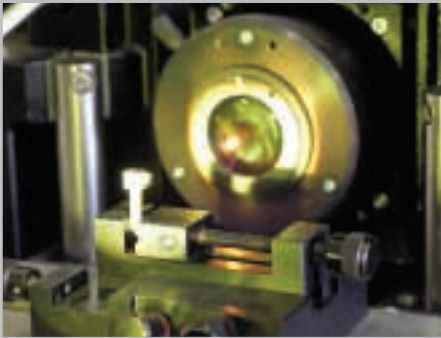
Page: 26

**CIRCUIT BREAKER POLYSNAP**

Circuit breaker options for Polysnap mains inlet modules.

Pages: 79 and 86



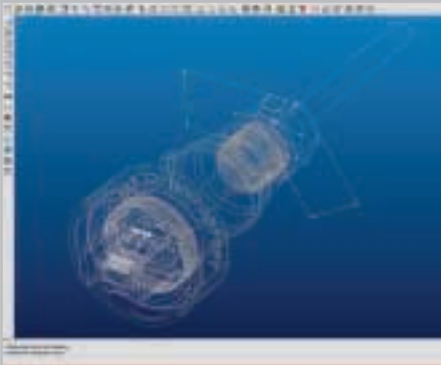
EXPERTISE

With over 80 years experience in the electro-mechanical market Bulgin Components is a major supplier satisfying the most demanding of uses and applications. Customers are able to rely on the stability, quality and range of expertise that this level of experience brings.

Bulgin Components recognises the most prevalent customer demands of quality, reliability and availability of products at a fair price. This 'value' principle continues to be the basis for all business decisions within the company, a major part of which is Bulgin's ability to control all processes from beginning to end.

MANUFACTURE

The requirement for careful process control has led Bulgin to maintain nearly all its manufacturing 'in-house', with tooling, injection moulding, metal forming and plating all undertaken in our own factory. This capability allows Bulgin to produce over 14 million finished products annually built using semi and fully automated assembly machinery consuming over 30 million mouldings and 80 million piece parts per year. This approach retains control over the entire manufacturing process, from raw materials through to production, inspection and testing.

DESIGN

New products are an integral part of Bulgin's development and reducing time to market for standard and customer driven requirements is paramount. All new product developments are managed through multidiscipline project teams with the design engineers using the latest 3D CAD modelling systems to ensure that time from concept through rapid prototyping to production is kept to a minimum. This rare degree of flexibility allows a speedy and accurate response to specific customer development requests, both for minor modifications as well as major projects.

DISTRIBUTION

The last link in the chain is the availability of product. Here Bulgin is supported by a network of global and local distributors who provide service and support when and where it is needed.

REAL WORLD SOLUTIONS



IT'S QUALITY THAT COUNTS



Certificate No. 13623

Good design, high quality and maximum value form an integral part of the Bulgin philosophy.

We maintain a documented quality plan specifying process and product goals to ISO 9001:2000.

Investment in new plant and equipment makes an important contribution to continuous quality improvements. The risk of errors in the transition from design to manufacture is greatly reduced by the digital data flows from our CAD systems, and our automatic manufacturing equipment which can form and assemble components to consistently high quality standards.

APPROVALS

All new products are extensively pre-production tested, in our dedicated electrical and mechanical test facility, which also conducts regular checks during manufacture.





















The numerous international safety approvals gained are testimony in themselves to Bulgin's ongoing commitment to quality and the world wide market place.



FEEDBACK

At Bulgin Components we are always striving to improve our service. Should you have any feedback regarding our products or service we will always be pleased to hear from you. Email: feedback@bulgin.co.uk

INTERNATIONAL APPROVAL BODIES

<p>United Kingdom</p>	<p>Denmark</p>	<p>Norway</p>
<p> B.S.I. Kitemark</p>	<p> D.E.M.K.O.</p>	<p> N.E.M.K.O.</p>
<p>BS EN ISO 9001:2000 B.S.I.</p>	<p>Europe</p>	<p>South Africa</p>
<p> British Electro-Technical Approvals Board</p>	<p> E.N.E.C.</p>	<p> S.A. Bureau of Standards</p>
<p>Austria</p>	<p>Finland</p>	<p>Sweden</p>
<p> O.V.E.</p>	<p> F.I.M.K.O.</p>	<p> S.E.M.K.O.</p>
<p>Australia</p>	<p>Germany</p>	<p>Switzerland</p>
<p> State Electricity Commission of Victoria</p>	<p> V.D.E.</p>	<p> S.E.V.</p>
<p> The Regulatory Compliance Mark (RCM)</p>	<p>Holland</p>	<p>U.S.A.</p>
<p>Belgium</p>	<p> KEMA-KEUR</p>	<p> U.L. Recognised</p>
<p> CEBEC</p>	<p>Italy</p>	<p> U.L. Listed</p>
<p>Canada</p>	<p> I.M.Q.</p>	<p>Russia</p>
<p> C.S.A.</p>	<p> GOST The State Committee for Standards</p>	

International Approval bodies used by Bulgin Components Plc.
 For a list of current Bulgin product approvals please see pages [178-179](#).

PRODUCT APPROVALS - CERTIFICATE NUMBERS

Part no.	RCM No.	BSI No.	CSA No.	IMQ No.	SEMKO No.	UL No.	VDE No.
BZM27,28 Single Pole Sw (BZM1)		KM06745	LR43989-43	EG084	9505046	E70394	886700-1550-0715(40003215)
BZM27,28 Double Pole Sw (BZM2)		KM06745	LR43989-43	EG084	9505046	E70394	886700-1550-0715(40003215)
FX0180						E60600	
FX0185						E60600	
FX0280						E60600	
FX0285						E60600	
FX0354					0134105-01	E60600	
FX0355					0134105-02	E60600	
FX0357			LR 80963-1		9542103-01	E60600	886700-1170-0004(40001414)
FX0359			LR 80963-1		9542103-02	E60600	886700-1170-0004(40001414)
FX0367			LR 80963-1		0134107-01	E60600	886700-1170-0007(40000686)
FX0369			LR 80963-1		0134107-02	E60600	886700-1170-0007(40000686)
FX0380						E60600	
FX0385						E60600	
FX0415						E60600	
FX0415/S						E60600	
FX0416						E60600	
FX0416/S						E60600	
FX0417			LR 80963-5	CA03.00280	9642130-01	E60600	8867-1170-0002
FX0418 series			LR 80963-5	CA03.00280	0134108-01	E60600	8867-1170-0005
FX0430 series			LR 80963	CA03.00235		E60600	
FX0454			LR 80963-2		0134104-01	E60600	886700-1170-0004(40001414)
FX0454/S			LR 80963-2		0134104-02	E60600	886700-1170-0004(40001414)
FX0455			LR 80963-2		0134104-03	E60600	886700-1170-0004(40001414)
FX0455/S			LR 80963-2		0134104-04	E60600	886700-1170-0004(40001414)
FX0456			LR 80963-1	CA03.00236	9841067-01	E60600	886700-1170-0003(40001109)
FX0457			LR 80963-1	CA03.00236	9841067-02	E60600	886700-1170-0003(40001109)
FX0458/1 - /2			LR 80963-2		0134106-01	E60600	886700-1170-0006(40004431)
FX0460			LR 80963		9619232-01	E60600	
FX0461			LR 80963		9619232-02	E60600	
Mini Buccaneer						E214972	
PF0001 series			LR43989-38	E9700	9950153/01	E92187	8867-1550-1004 (4017)
PF0001/PC			LR43989-38	E9700	9950153/01	E92187	8867-1550-1004 (4017)
PF0002 series			LR43989-44	E9700	9950153/02	E92187	8867-1550-1004 (4017)
PF0006 series			LR43989-38	E9701	9950134/01	E92187	8867-1550-1004 (4017)
PF0007 series			LR43989-38	E9701	9950134/02	E92187	8867-1550-1004 (4017)
PF0011 series			LR43989-38	E9700	9950153/03	E92187	8867-1550-1004 (4017)
PF0011/PC			LR43989-38	E9700	9950153/03	E92187	8867-1550-1004 (4017)
PF0016 series			LR43989-44	E9701	9950134/03	E92187	8867-1550-1004 (4017)
PF0030 series			LR43989-38	EF173	9950152/01	E92187	
PF0030/PC			LR43989-38	EF173	9950152/01	E92187	
PF0033 series			LR43989-38	EF172	9950152/02	E92187	
PS00/A			LR80968-2		9514062	E103825	8867-4730-1004/A1F
PS00/B			LR80968-2		9514062	E103825	8867-4730-1004/A1F
PS01/A			LR80968-2		9514062	E103825	8867-4730-1004/A1F
PS01/B			LR80968-2		9514062	E103825	8867-4730-1004/A1F
PS02/A			LR80968-2		9514065	E103825	8867-4730-1004/A1F
PS02/B			LR80968-2		9514065	E103825	8867-4730-1004/A1F
PS03/A			LR80968-2		9514065	E103825	8867-4730-1004/A1F
PS03/B			LR80968-2		9514065	E103825	8867-4730-1004/A1F
PS20/A			LR80968-2			E103825	8867-4730-1001
PS21/A			LR80968-2			E103825	8867-4730-1001
PS22/A			LR80968-2			E103825	8867-4730-1001
PS23/A			LR80968-2			E103825	8867-4730-1001
PS25/A			LR80968-2			E103825	8867-4730-1001
PS25/B			LR80968-2			E103825	8867-4730-1001
PS26/A			LR80968-2			E103825	8867-4730-1001
PS26/B			LR80968-2			E103825	8867-4730-1001
PX0410			LR43989			E214972	886700-1431-0003(40002226)
PX0411			LR43989			E214972	886700-1431-0003(40002226)
PX0412			LR43989			E214972	886700-1431-0003(40002226)
PX0575		KM06745	LR43989-1	E6552	9950148/03	E70394	886700-1550-0013(40003214)
PX0575/PC		KM06745	LR43989-3		9950148/03	E70394	886700-1550-0013(40003214)
PX0579 series		KM06745	LR43989-2	E6552	9950148/02	E70394	886700-1550-0013(40003214)
PX0580 series		KM06745	LR43989-2	E6552	0208189/01	E70394	886700-1550-0007(40003960)
PX0580/PC		KM06745	LR43989-2	E6552	0208189/01	E70394	886700-1550-0007(40003960)
PX0580/PC/7		KM06745	LR43989-43	E6552	0208189/01	E70394	886700-1550-0007(40003960)

PRODUCT APPROVALS - CERTIFICATE NUMBERS

Part no.	RCM No.	BSI No.	CSA No.	IMQ No.	SEMKO No.	UL No.	VDE No.
PX0580/PC/7/LC		KM06745	LR43989-43	E6552	0208189/01	E70394	886700-1550-0007(40003960)
PX0580/PC/12132			LR43989		0208189/01	E70394	886700-1550-0007(40003960)
PX0587	95152	KM06745	LR43989	E6557	0112225-01	E70394	8867-1550-0014 (136258)
PX0587/SE	95152	KM06745	LR43989-2	EL648	0112225-02	E70394	8867-1550-0014 (136258)
PX0588	95152	KM06745	LR43989-49		9802204-01	E93288	8867-1550-0713(106390)
PX0590		KM06745	LR43989-2	E6554	9950150/01	E70394	886700-1550-0013(40003214)
PX0595 series		KM06745	LR43989-2	E6554	0208201/01	E70394	886700-1550-0013(40003214)
PX0596			LR43989			E70394	886700-1550-0718(40004629)
PX0597		KM06745	LR43989-10	E6558	0112225-03	E70394	8867-1550-0014 (136258)
PX0598			LR43989			E70394	886700-1550-0718(40004629)
PX0599			LR43989			E70394	886700-1550-0714(40004628)
PX0675 series			LR43989-2	E9702	0208200/-02	E93288	886700-1550-0012(40003955)
PX0675/PC			LR43989-2	E9702	0208200/-02	E93288	886700-1550-0012(40003955)
PX0685			LR43989-2			E70394	
PX0686	19183		LR43989-51	EF263	9708202-01	E70394	886700-1550-0015(40004871)
PX0686/SE	19183		LR43989-51	EF271	9708202-02	E70394	886700-1550-0015(40004871)
PX0690 series		KM06745	LR43989-44	E6553	0208184/01	E70394	886700-1550-0013(40003214)
PX0690/PC series			LR43989		0208184/01	E70394	886700-1550-0013(40003214)
PX0691 series		KM06745	LR43989-44	E6553	0208178/01	E70394	886700-1550-0013(40003214)
PX0691/PC			LR43989		0208178/01	E70394	
PX0695 series			LR43989	E9704	0208200/01	E93288	886700-1550-0009(40003963)
PX0695/PC			LR43989	E9704	0208200/01		886700-1550-0009(40003963)
PX0705 series			LR43989-44	E9703	0208190/01-02	E93288	886700-1550-0009(40003963)
PX0725 series			LR43989-44	E9703	0208190/01-02	E93288	886700-1550-0009(40003963)
PX0770			LR43989-2				
PX0772			LR43989-2				
PX0777					201720		
PX0780			LR43989-2				
PX0782			LR43989-2				
PX0783 series			LR43989-51	EF345	9406207-01	E93288	8867-1550-0016(082936)
PX0784			LR43989-45			E70394	886700-1550-1017(40001795)
PX0785			LR43989-45			E70394	886700-1550-1017(40001795)
PX0786			LR43989-45			E70394	886700-1550-1017(40001795)
PX0793 series			LR43989-51	EF344	9406207-02	E93288	8867-1550-0016(082936)
PX0911			1211899			E214972	886700-1431-0002(40003148)
PX0921			1211899			E214972	886700-1431-0002(40003148)
PX0931			1211899			E214972	886700-1431-0002(40003148)
PX0941			1211899			E214972	886700-1431-0002(40003148)
PXA911			1211899			E214972	886700-1431-0002(40003148)
PXA921			1211899			E214972	886700-1431-0002(40003148)
PXD100/050					9608133-04		
PXD301/050					9608133-03		
PXD301/550					9608133- 02		
PXD306/050					9608133 01		
PZ0100 (P887)		KM06745			9950146-01		
PZ0200 (P887/SE)		KM06745			9950147-01		
PZ0800		KM07951					
Standard Buccaneer			LR80968-50			E93288	8867-1431-1001
VS0001			69537		9843096-01		8867-4401-1001(137007)
VS0002			69537		9843096-02		8867-4401-1001(137007)

IP RATINGS

Degree of protection to BS EN60529/DIN 0470

IP Ratings Guide

The IP classification system designates the degree of protection provided by an enclosure against solid objects or water ingress. Table I shows degrees of protection against solid objects, Table II shows degrees of protection against water.

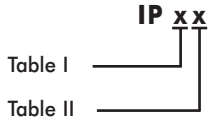


Table I (1st characteristic numeral)

Degree of Protection against solid objects

	Digit	
	0	Non-protected
	1	Protected against a solid object greater than 50mm, such as a hand.
	2	Protected against a solid object greater than 12.5mm, such as a finger.
	3	Protected against a solid object greater than 2.5mm, such as wire or a tool.
	4	Protected against a solid object greater than 1.0mm, such as wire or thin strips.
	5	Dust-protected. Prevents ingress of dust sufficient to cause harm.
	6	Dust tight. No ingress of dust.

Table II (2nd characteristic numeral)

Degree of Protection against water

	Digit	
	0	Non-protected
	1	Protected against dripping water.
	2	Protected against dripping water when tilted up to 15°.
	3	Protected against spraying water at an angle of up to 60°.
	4	Protected against splashing water from any direction.
	5	Protected against jets of water from any direction.
	6	Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
	7	Protected against the effects of temporary immersion in water.
	8	Protected against the effects of continuous immersion in water.

COMPARISON CHART METRIC TO AWG WIRE SIZES

AWG	Cross Sectional Area in mm ²	Closest standard equivalent in mm ²
30	0.0503	0.05
29	0.0646	-
28	0.0804	-
27	0.102	0.1
26	0.128	0.14
25	0.163	-
24	0.205	0.2
23	0.259	0.25
22	0.325	-
21	0.412	-
20	0.519	0.5
19	0.653	-
18	0.823	0.75
17	1.04	1
16	1.31	-
15	1.65	1.5
14	2.08	-
13	2.63	2.5
12	3.13	-
11	4.15	4
10	5.27	-
9	6.62	6
8	8.35	-
7	10.6	10
6	13.3	-
5	16.8	16
4	21.2	-
3	26.7	25
2	33.6	35
1	42.4	-
0	53.4	50
2/0	67.5	70
3/0	85	95
4/0	107.2	120
5/0	135.1	150
6/0	170.3	185

FULL RANGE DISTRIBUTORS

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Fax: 01536 201501
Web Site: www.rswww.com



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Web Site: www.indexmarine.co.uk

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Email: mdm@unipart.co.uk
Web Site: www.burdengroup.com



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Email: kat@rs-components.com

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Fax: 02/511.03.53

Email: verco.sprl@skynet.be

Web-Site: www.verco.be



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Fax: +32 3227 3648

Web-Site: www.farnellinone.com



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Fax: 00 55 11 4066 9410

Web-Site: www.farnell-newarkinone.com.br



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Web-Site: www.rsbrasil.com



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Fax: (905) 764 8003

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GENERAL INFORMATION

Terms

All orders are subject to our Standard Terms & Conditions a copy of which is available on request.

The Company reserves the right to alter product specifications without prior notice.

Health & Safety at Work Act - 1974

Bulgin proprietary components are designed, manufactured, assessed and tested to comply with good commercial quality and engineering standards. They are safe and reliable in use within the vast majority of normal environments. In the interest of safety, application in certain extreme destructive or unsuitable environments must be avoided.

The following restrictions are given as guidance

External or wet areas (exposed to rain or spray), except where designated "Sealed".

Atmospheres designated as "explosive". Highly corrosive atmospheres or subject to contamination by corrosive chemicals. (Avoid the use of corrosive acid soldering flux. Use an approved Electrical Grade).

Atmospheres containing a high density of abrasive dust (mechanically operated components).

Contamination with Silicone or Silicone Compounds (switches).

Areas or levels unprotected from severe impact by heavy bodies moving in close proximity - (panel mounted components).

Extremes of temperatures, beyond the specified limits.

Electric supply voltage or load current above the published maximum ratings.

General

To ensure electrical safety as far as is reasonably practical, these products should be properly applied, installed and maintained by or under the supervision of competent persons in accordance with good engineering practice.

Dimensions

All dimensions are in millimetres (mm) unless otherwise stated.

The CE Marking Directive

Equipment bearing the CE mark is allowed free circulation throughout Europe. The products in this catalogue, when installed correctly, comply with the CE requirements where it relates to them.

The Low Voltage Directive

The Low Voltage Directive 72/23/EEC seeks to ensure that electrical equipment within certain limits both provides a high level of protection for European citizens and enjoys a single market in the European Union. Where applicable, Bulgin products comply with the requirements of this directive.

RoSH

Bulgin Components PLC recognise the social and economical import of environmental protection and is currently assessing the impact of the RoHS and its implications on all manufactured products. Actions are being taken with the objective of meeting the requirements of the directive by year end 2004.

Bulgin on the web



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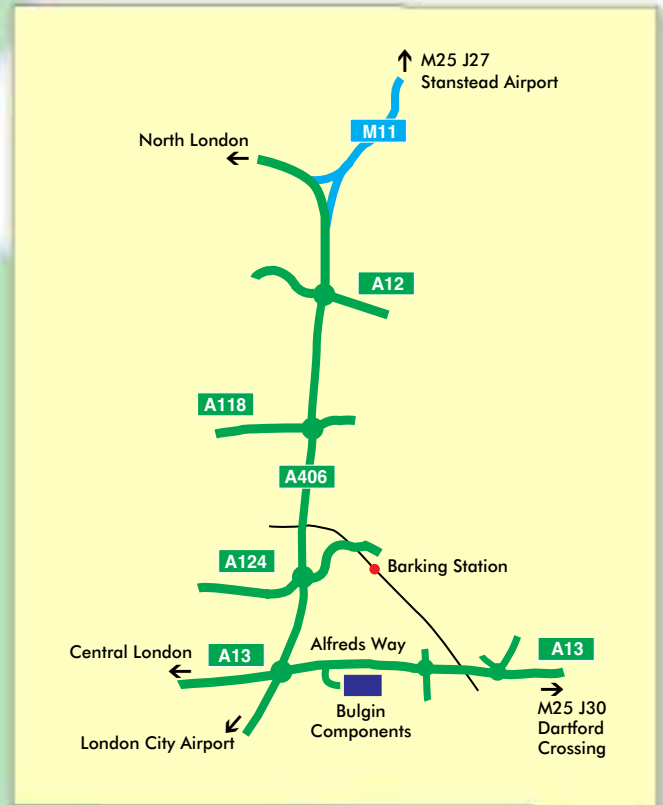
Bulgin Components is situated on the London (west) bound carriageway of the A13 a few hundred yards before the junction with the A406.

We are easily accessible from the city directly along the A13 and from out of town via the M25 and M11 or A13 - see the inset local map.

Main line trains from London Fenchurch Street and District Line underground trains both call at Barking station.

2003

There are currently major roadworks along this stretch of the A13 with a new underpass under construction at the Movers Lane junction. As part of these road improvements a new slip road leads to Bulgin Components, the entrance is first left after passing Bulgin along the A13.



BBULGIN

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