





















INTERNATIONAL APPROVAL BODIES

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<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>
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<p>Austria</p>	<p>Finland</p>	<p>Sweden</p>
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<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 198-199.

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				CA03.00345	0134105-01	E60600	
FX0357			LR 80963-1	CA03.00343	9542103-01	E60600	886700-1170-0004(40001414)
FX0359			LR 80963-1	CA03.00343	9542103-02	E60600	886700-1170-0004(40001414)
FX0367			LR 80963-1	CA03.00343	0134107-01	E60600	886700-1170-0007(40000686)
FX0369			LR 80963-1	CA03.00343	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	886700-1170-0001 (40008844)
FX0454			LR 80963-2	CA03.00344	0134104-01	E60600	886700-1170-0004(40001414)
FX0454/S			LR 80963-2	CA03.00344	0134104-02	E60600	886700-1170-0004(40001414)
FX0455			LR 80963-2	CA03.00344	0134104-03	E60600	886700-1170-0004(40001414)
FX0455/S			LR 80963-2	CA03.00344	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	CA03.00344	0134106-01	E60600	886700-1170-0006(40004431)
FX0460			LR 80963	CA03.00347	9619232-01	E60600	
FX0461			LR 80963	CA03.00347	9619232-02	E60600	
Mini Buccaneer						E214972	
PF0001 series			LR43989-24	E9700	9950153/01	E92187	8867-1550-0716 (40011255)
PF0001/PC			LR43989-24	E9700	9950153/01	E92187	8867-1550-0716 (40011255)
PF0002 series			LR43989-24	E9700	9950153/02	E92187	8867-1550-0716 (40011255)
PF0006 series			LR43989-24	E9701	9950134/01	E92187	8867-1550-0716 (40011255)
PF0007 series			LR43989-24	E9701	9950134/02	E92187	8867-1550-0716 (40011255)
PF0011 series			LR43989-24	E9700	9950153/03	E92187	8867-1550-0716 (40011255)
PF0011/PC			LR43989-24	E9700	9950153/03	E92187	8867-1550-0716 (40011255)
PF0016 series			LR43989-24	E9701	9950134/03	E92187	8867-1550-0716 (40011255)
PF0030 series			LR43989-24	EF173	9950152/01	E92187	
PF0030/PC			LR43989-24	EF173	9950152/01	E92187	
PF0033 series			LR43989-24	EF173	9950152/02	E92187	
PS00/A			LR80968-2			E103825	886700-4730-0008 (40010298)
PS00/B			LR80968-2			E103825	886700-4730-0008 (40010298)
PS01/A			LR80968-2			E103825	886700-4730-0008 (40010298)
PS01/B			LR80968-2			E103825	886700-4730-0008 (40010298)
PS02/A			LR80968-2			E103825	886700-4730-0009 (40011353)
PS02/B			LR80968-2			E103825	886700-4730-0009 (40011353)
PS03/A			LR80968-2			E103825	886700-4730-0009 (40011353)
PS03/B			LR80968-2			E103825	886700-4730-0009 (40011353)
PS20/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS21/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS22/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS23/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS25/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS25/B			LR80968-2			E103825	886700-4730-0007 (40010358)
PS26/A			LR80968-2			E103825	886700-4730-0007 (40010358)
PS26/B			LR80968-2			E103825	886700-4730-0007 (40010358)
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)
PX0580/PC/7/LC		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/12132			LR43989		0208189/01	E70394	886700-1550-0007(40003960)
PX0587	95152	KM06745	LR43989		0112225-01	E70394	8867-1550-0014 (136258)
PX0587/SE	95152	KM06745	LR43989-2		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		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	312367	E70394	886700-1550-0015(40004871)
PX0686/SE	19183		LR43989-51	EF271	312367	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	E6553	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)
PX0777					201720		
PX0783 series			LR43989-51	EF345	9406207-01	E93288	8867-1550-0016(082936)
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		E6556	9950146-01		8867-1550-801 (60150)
PZ0200 (P887/SE)		KM06745		CA02.01995	9950147-02		8867-1550-801 (60150)
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.

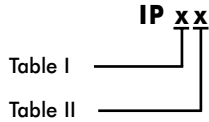


Table I (1st characteristic numeral)

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

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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.

RoHS

These new European Directives introduce new environmental responsibilities for electrical and electronics equipment manufacturers. The RoHS (Restriction of use of certain Hazardous Substances) directive, part of the WEEE (Waste Electrical and Electronic Equipment) directive, is due to come into force on 1st July 2006.

The RoHS directive effectively bans the use of certain chemicals, these are defined as:

- * Lead
- * Cadmium
- * Mercury
- * Hexavalent Chromium
- * Polybrominated Biphenyl (PBB) - flame retardant
- * Polybrominated Diphenyl Ether (PBDE) - flame retardant

Bulgin Components PLC is currently taking action with the objective of meeting the requirement of this directive by end 3rd quarter 2005. Bulgin have marked the packaging of all compliant products since the end of October 2004. The catalogue pages reflect the RoHS compliance of products, at time of printing. More information can be found on our web-site www.bulgin.co.uk.