

Annexe to: IECEx SIR 13.0021
 Applicant: Pepperl+Fuchs GmbH
 Apparatus: CJB Control Junction Boxes



Additional Manufacturing Sites

Pepperl+Fuchs Inc.
 1600 Enterprise Parkway, Twinsburg, Ohio 44087, USA
 Pepperl+Fuchs GmbH
 Werk Bühl, Bussmatten 10 – 12, 77815 Bühl/Baden, Germany
 Pepperl+Fuchs (Manufacturing) PTE LTD.
 18 Ayer Rajah Crescent, Singapore 139942, Singapore

Enclosure Dimensions

XL and FXL Types					GL Types				
Enclosure type	IP rating	Enclosure dimensions (mm)			Enclosure type	IP rating	Enclosure dimensions (mm)		
		Height	Width	Depth			Height	Width	Depth
1	IP6x	229	152	145	5	IP6x	120	120	90
2	IP6x	260	260	165	6	IP6x	120	220	90
2D	IP6x	260	260	215	7	IP6x	160	160	91
3	IP6x	306	306	165	8	IP6x	160	260	91
3D	IP6x	306	306	215	9	IP6x	160	360	91
4	IP6x	380	260	165	10	IP6x	160	560	91
4D	IP6x	380	260	215	11	IP6x	250	255	120
5	IP6x	458	382	165	11Dk	IP6x	250	255	165
5D	IP6x	458	382	215	12	IP6x	250	400	120
6	IP6x	480	480	165	13	IP6x	405	400	120
6D	IP6x	480	480	215	14	IP6x	405	400	165
7	IP6x	500	350	165	14Dk	IP6x	405	400	200
7D	IP6x	500	350	215					
8	IP6x	620	450	165					
8D	IP6x	620	450	215					
9	IP6x	762	508	165					
9D	IP6x	762	508	215					
10	IP6x	914	610	215					
10D	IP6x	914	610	315					
11j	IP54	1177	777	225					
11Dj	IP54	1177	777	315					

k These enclosures are not included in IECEx SIR 06.0105U and their suitability has been attested by the assessments associated with this certificate.

j These enclosures have an ingress protection rating of IP54 and are therefore not suitable for dust applications.

Permitted Certified Devices

Component Description	Certificate Number	Key Attributes
Ammeter Module CZ0205-6DA/5	IECEx CQM 08.0007U	Ex e II
CZ Switch Block used in conjunction with Push Button, Key switch or Selector Switch Operator Heads certified under DNV-2009-OSL-ATEX-46028U and IECEx CQM 08.00012U	IECEx CQM 08.0005U	Ex de IIC
CZ Operator Heads used in conjunction with Switch Block certified under DNV-2008-OSL-ATEX-21657U and IECEx CQM 08.0005U CZ Signal Lamp Cover used in conjunction with DNV-2009-OSL-ATEX-46028U and IECEx CQM 08.0006U	IECEx CQM 08.0012U	Ex e II Ex tD A21 IP66
CZ LED Lamps type CZ0202, complete with mounting bezel.	IECEx CQM 08.0006U	Ex de IIC
CZ LED Lamps with contactors type CZ0212, complete with mounting bezel.	IECEx CQM 11.0034U	Ex de IIC Gb
CZ Potentiometers type CZ0203	IECEx CQM 11.0033U	Ex de IIC Gb
Pepperl+Fuchs MFT multi-function terminals	IECEx BKI 08.0008U	Ex de IIC
Phoenix Contact terminal blocks, type UT	IECEx KEM 06.0027U	Ex eb IIC

Sira Certification Service

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Power Dissipation Values

XL and FXL Types						
Enclosure Type	5 kΔT		10 kΔT		15 kΔT	
	P (W)	T Class/Dust (Ta +55°C)	P (W)	T Class/Dust (Ta +55°C)	P (W)	T Class/Dust (Ta +55°C)
1	2.3	T5/T95°C	4.6	T4/T130°C	6.9	T4/T130°C
2	3.8	T5/T95°C	7.6	T4/T130°C	11.3	T4/T130°C
2D	4.6	T5/T95°C	9.2	T4/T130°C	13.8	T4/T130°C
3	4.7	T5/T95°C	9.3	T4/T130°C	14.0	T4/T130°C
3D	5.6	T5/T95°C	11.3	T4/T130°C	16.9	T4/T130°C
4	4.9	T5/T95°C	9.8	T4/T130°C	14.7	T4/T130°C
4D	5.9	T5/T95°C	11.8	T4/T130°C	17.7	T4/T130°C
5	7.1	T5/T95°C	14.3	T4/T130°C	21.4	T4/T130°C
5D	8.5	T5/T95°C	16.9	T4/T130°C	25.4	T4/T130°C
6	8.6	T5/T95°C	17.3	T4/T130°C	25.9	T4/T130°C
6D	10.1	T5/T95°C	20.3	T4/T130°C	30.5	T4/T130°C
7	7.2	T5/T95°C	14.4	T4/T130°C	21.6	T4/T130°C
7D	8.5	T5/T95°C	17.1	T4/T130°C	25.6	T4/T130°C
8	10.0	T5/T95°C	20.0	T4/T130°C	29.9	T4/T130°C
8D	11.7	T5/T95°C	23.3	T4/T130°C	35.0	T4/T130°C
9	12.7	T5/T95°C	25.5	T4/T130°C	38.3	T4/T130°C
9D	14.7	T5/T95°C	29.5	T4/T130°C	44.2	T4/T130°C
10	19.1	T5/T95°C	38.3	T4/T130°C	57.4	T4/T130°C
10D	24.0	T5/T95°C	47.9	T4/T130°C	71.9	T4/T130°C
11	28.3	T5/T95°C	56.6	T4/T130°C	85.0	T4/T130°C
11D	33.9	T5/T95°C	67.7	T4/T130°C	101.6	T4/T130°C
GL Types						
Enclosure Type	5 kΔT		10 kΔT		15 kΔT	
	P (W)	T Class/Dust (Ta +55°C)	P (W)	T Class/Dust (Ta +55°C)	P (W)	T Class/Dust (Ta +55°C)
5	1.7	T5/T95°C	3.5	T4/T130°C	5.2	T4/T130°C
6	2.6	T5/T95°C	5.3	T4/T130°C	7.9	T4/T130°C
7	2.5	T5/T95°C	5.1	T4/T130°C	7.6	T4/T130°C
8	3.6	T5/T95°C	7.1	T4/T130°C	10.7	T4/T130°C
9	4.6	T5/T95°C	9.2	T4/T130°C	13.8	T4/T130°C
10	6.6	T5/T95°C	13.3	T4/T130°C	19.9	T4/T130°C
11	5.6	T5/T95°C	11.1	T4/T130°C	16.7	T4/T130°C
11D	6.9	T5/T95°C	13.9	T4/T130°C	20.8	T4/T130°C
12	7.7	T5/T95°C	15.4	T4/T130°C	23.1	T4/T130°C
13	10.7	T5/T95°C	21.4	T4/T130°C	32.1	T4/T130°C
14	12.9	T5/T95°C	25.8	T4/T130°C	38.7	T4/T130°C
14D	14.6	T5/T95°C	29.2	T4/T130°C	43.8	T4/T130°C

Conditions of manufacture

The Manufacturer shall comply with the following:

1. If the control stations are fitted with wiring, each arrangement shall be subject to a dielectric strength test in accordance with clause 6.1IEC 60079-7. Alternatively, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100 ms.
2. The total dissipated power for the enclosure shall be calculated in accordance with IEC 60079-7, Annex E,E.2 and shall not exceed the maximum power rating defined in this certificate.
3. The Control Stations covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of the Control Stations.
4. The manufacturer shall take all reasonable steps to ensure that the user/installer complies with the special conditions for certification associated with the CJB range of Control Junction Boxes, in addition, the manufacturer shall provide the user/installer with an appropriate copy of the certificate for each certified device that is fitted in the box.
5. The Junction Boxes may also be manufactured to sizes not specified in the documentation. In this case, the marked power shall be calculated in accordance with the method detailed on the Schedule Drawings.