



DEIF A/S

Type certificate

4124040016C

Type:	XL72, XL96, XL144, XL192, XL96 front mounted, XL144 front mounted, BW144, BW192, BRW-2 illuminated indication instruments with 360° x-coil instrument systems.
-------	---

Technical specifications

Accuracy:	Fixed scale: Class 0.5 (-10... <u>15</u> ...30...55°C) Exchangeable scale: Class 1.0 (-10... <u>15</u> ...30...55°C) Measured at 360° deflection. According to EN 60051 and IEC 51																				
Response time	90° per sec./no overshoot																				
Scale:	According to customer design																				
Aux. supply	24V _{DC} -25/+30% (18...24...31.2V _{DC}). Consumption max: 130mA																				
Measuring ranges:	Standard ranges: Voltage input: 0...1V _{DC} , 0...10V _{DC} , ±1V _{DC} , ±5V _{DC} , ±10V _{DC} Current input: 0...1mA _{DC} , 0...20mA _{DC} , 4...20mA _{DC} , ±0.5mA _{DC} , ±1mA _{DC} , ±10mA _{DC} , ±20mA _{DC} Customer specific range: Limits: ±1...±30V _{DC} and ±1...±25mA _{DC}																				
Adjustment:	Built-in potentiometer. Adjustment range: ±5% to ±10%																				
Illumination:	Adjustment range 7...30V _{DC} . Consumption max. 30mA																				
Housing:	To DIN 43700 for panel cut-out. <table border="1"> <thead> <tr> <th>Size:</th> <th>XL</th> <th>XL front mount</th> <th>BW</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>77 x 77 mm</td> <td></td> <td></td> </tr> <tr> <td>96</td> <td>102 x 102 mm</td> <td>127.5 x 127.5 mm</td> <td></td> </tr> <tr> <td>144</td> <td>148.5 x 148.5 mm</td> <td>173 x 173 mm</td> <td>148.5 x 148.5 mm</td> </tr> <tr> <td>192</td> <td>196 x 196 mm</td> <td></td> <td>196 x 196 mm</td> </tr> </tbody> </table> Housing and glass material: UL94 V0	Size:	XL	XL front mount	BW	72	77 x 77 mm			96	102 x 102 mm	127.5 x 127.5 mm		144	148.5 x 148.5 mm	173 x 173 mm	148.5 x 148.5 mm	192	196 x 196 mm		196 x 196 mm
Size:	XL	XL front mount	BW																		
72	77 x 77 mm																				
96	102 x 102 mm	127.5 x 127.5 mm																			
144	148.5 x 148.5 mm	173 x 173 mm	148.5 x 148.5 mm																		
192	196 x 196 mm		196 x 196 mm																		
Housing: BRW-2	Housing for Bulkhead mounting																				
Disk:	XL96: Ø 47 mm XL144: Ø 70.5 mm																				

Type test specifications

Tested according to:

Vibration:	3...13.2 Hz: 2 mm (peak-peak) 13.2...100 Hz: 0.7 g 3...13.2 Hz: 6 mm (peak-peak) 13.2...50 Hz: 2.1 g	EN/IEC 60945 DNV: Class A DNV: Class C
Shock:	6 attempts with 50 g half sine 11ms (in 3 directions)	IEC 60068-2-27
Drop impact resistance	18 x 100g (peak)	
Climate:	97%RH	IEC 60068-2-30
Protection:	XL Front: IP52 IP66 with gasket XL Terminals/rear: IP20 BW: IP66 BRW-2: IP66	EN/IEC 60529 EN/IEC 60945
Temperature:	-10...55°C (nominal) -25...70°C (operating) -40...70°C (storage) Influence: max ±1.5% within -15...55°C	EN/IEC 60051 IEC 60068-2-2/-3

**DEIF A/S****Type certificate**

4124040016C

<i>Typetest specifications - continued</i>		<i>Tested according to:</i>
EMC	Emission and immunity tested for residential, commercial and light industry plus industrial environment	EN61000-6-1/2/3/4 EN/IEC 60945
Test voltage	600 V – 50 Hz – 1 min. between following groups: CAN: Aux. Supply; CAN 1;CAN 2 Analogue: Aux. Supply; analogue inputs; dimmer 50V – CAT. III. Pollution deg. 2	EN/IEC 61010-1, IACS UR E10
Compass safety distance	Steering compass: 0.20m Stand-by/emergency compass: 0.10m BRW-2 Steering compass: 0.50m BRW-2 standby/emergency c 0.50m	EN/IEC 60945
Mounting angle	Any angle between 0... 150° horizontal	DIN 16257

DEIF A/S
Frisenborgvej 33
DK-7800 Skive
Denmark

Date: 20160531


Søren Madsen
Type Test Manager