

# IL GL EMC1

## Inline terminals which are approved according to GL (EMC1) for bridge applications; including a safe distance from the compass

### AUTOMATION

Application note  
8172\_en\_00

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The table on page 2 lists all standard Inline terminals which have been tested in accordance with the relevant requirements for the GL type approval. These terminals meet the requirements of the environmental category EMC1 and are approved for use in applications on ship bridges.

Versions of the listed terminals are included, such as for example

In Table:	IB IL 24 DI 16-PAC	Delivered with connector inserted
Versions:	IB IL 24 DI 16	Delivered without connector
	IB IL 24 DI 16/SN	Delivered with connector inserted and different terminal point labeling

The versions are of the same design and do not have differences with regard to the magnetic relevant components.

The column "Certificate No. 658" indicates whether a terminal is listed (+) or not (-) in the Certificate No. 658 of the Bundesamts für Seeschifffahrt und Hydrographie (Federal Maritime Shipping and Hydrographic Agency).

### Distance from compass

Keep a safe distance to the compass when you install the Inline terminals in the vicinity of a magnetic compass!

The following safe distances from the compass apply for the terminals **listed** in Certificate No. 658 (+ in the corresponding column):

Safe distance from

- Standard magnetic compass 0.85 m
- Steering magnetic compass 0.45 m

As a rule, a safe distance of 5 m from the compass applies for all terminals **not listed** in Certificate No. 658 (- in the corresponding column).



Make sure you always use the latest documentation.

It can be downloaded at [www.phoenixcontact.net/catalog](http://www.phoenixcontact.net/catalog).

Here you will also find the approval certificates for the individual terminals.

Order No.	Type	Certificate No. 658
<b>Inline controller</b>		
2985576	ILC 370 PN 2TX-IB/M	+
2985819	ILC 350 ETH/M	-
<b>Bus coupler</b>		
2861593	IBS IL 24 BK-DSUB-PAC	+
2861218	IBS IL 24 BK-LK-PAC	+
2861580	IBS IL 24 BK-T/U-PAC	+
2861441	IBS IL 24 RB-T-PAC	+
2863070	IL IB BK-PAC	-
<b>Power supply</b>		
2862136	IB IL 24 PWR IN/2-F-PAC	+
2861027	IB IL 24 PWR IN/M	-
2693020	IB IL 24 PWR IN/R/L-0.8A-PAC	+
2861674	IB IL 24 PWR IN/R-PAC	-
2861331	IB IL 24 PWR IN-PAC	+
<b>Segmentation</b>		
2861373	IB IL 24 SEG/F-PAC	+
<b>Digital input</b>		
2861250	IB IL 24 DI 16-PAC	+
2861221	IB IL 24 DI 2-PAC	-
2862835	IB IL 24 DI 32/HD-PAC	-
2861234	IB IL 24 DI 4-PAC	+
2861247	IB IL 24 DI 8-PAC	-
2700173	IB IL 24 DI8/HD-PAC	-
<b>Digital output</b>		
2861292	IB IL 24 DO 16-PAC	+
2861470	IB IL 24 DO 2-PAC	-
2862822	IB IL 24 DO 32/HD-PAC	-
2861276	IB IL 24 DO 4-PAC	+
2863546	IB IL 24 DO 8-NPN-PAC	-
2861289	IB IL 24 DO 8-PAC	+
2700172	IB IL 24 DO8/HD-PAC	-
<b>Relay</b>		
2861881	IB IL 24/230 DOR1/W-PAC	-
2861878	IB IL 24/230 DOR4/W-PAC	+
2861645	IB IL DOR LV-SET-PAC	-
<b>Analog input</b>		
2861302	IB IL AI 2/SF-PAC	+
2878447	IB IL AI 4/EF-PAC	-
2861661	IB IL AI 8/IS-PAC	+
2861412	IB IL AI 8/SF-PAC	+
<b>Analog output</b>		
2863083	IB IL AO 2/SF-PAC	+
2861467	IB IL AO 2/U/BP-PAC	+
<b>Temperature recording</b>		
2861328	IB IL TEMP 2 RTD-PAC	+
2861386	IB IL TEMP 2 UTH-PAC	+
2863915	IB IL TEMP 4/8 RTD-PAC	+

Order No.	Type	Certificate No. 658
<b>Function</b>		
2861852	IB IL CNT-PAC	+
2861632	IB IL PWM/2-PAC	+
<b>Communication</b>		
2861357	IB IL RS 232-PAC	-
2878722	IB IL RS 232-PRO-PAC	+
2861933	IB IL RS 485/422-PAC	-
2863627	IB IL RS 485/422-PRO-PAC	+
<b>Inline master for local subsystems</b>		
2700196	IB IL CAN-MA-PAC	+

Key:

+ Listed

- Not listed

... in the Certificate No. 658 of the Bundesamts für Seeschifffahrt und Hydrographie (Federal Maritime Shipping and Hydrographic Agency).