

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

© PHOENIX CONTACT 2011-03-24

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.

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

| Order No. | Type | Certificate No. 658 |
|------------------------------|------------------------------|---------------------|
| Inline controller | | |
| 2985576 | ILC 370 PN 2TX-IB/M | + |
| 2985819 | ILC 350 ETH/M | - |
| Bus coupler | | |
| 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 | - |
| Power supply | | |
| 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 | + |
| Segmentation | | |
| 2861373 | IB IL 24 SEG/F-PAC | + |
| Digital input | | |
| 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 | - |
| Digital output | | |
| 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 | - |
| Relay | | |
| 2861881 | IB IL 24/230 DOR1/W-PAC | - |
| 2861878 | IB IL 24/230 DOR4/W-PAC | + |
| 2861645 | IB IL DOR LV-SET-PAC | - |
| Analog input | | |
| 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 | + |
| Analog output | | |
| 2863083 | IB IL AO 2/SF-PAC | + |
| 2861467 | IB IL AO 2/U/BP-PAC | + |
| Temperature recording | | |
| 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 |
|---|--------------------------|---------------------|
| Function | | |
| 2861852 | IB IL CNT-PAC | + |
| 2861632 | IB IL PWM/2-PAC | + |
| Communication | | |
| 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 | + |
| Inline master for local subsystems | | |
| 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).