

## WIRING DIAGRAMS

High **PROTEC** | PROTECTION TECHNOLOGY  
MADE SIMPLE

**MRI4** | Feeder Protection

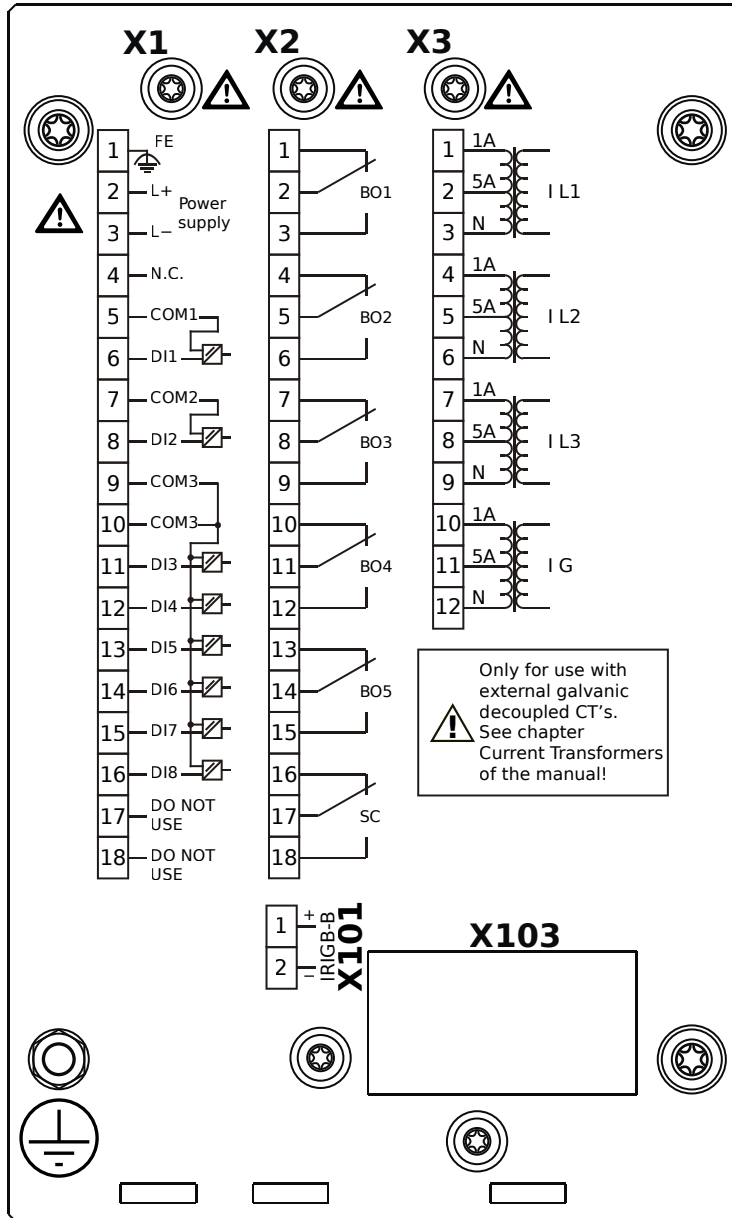
Version: 3.10

Original document

English

This document does not replace the Technical Manual.

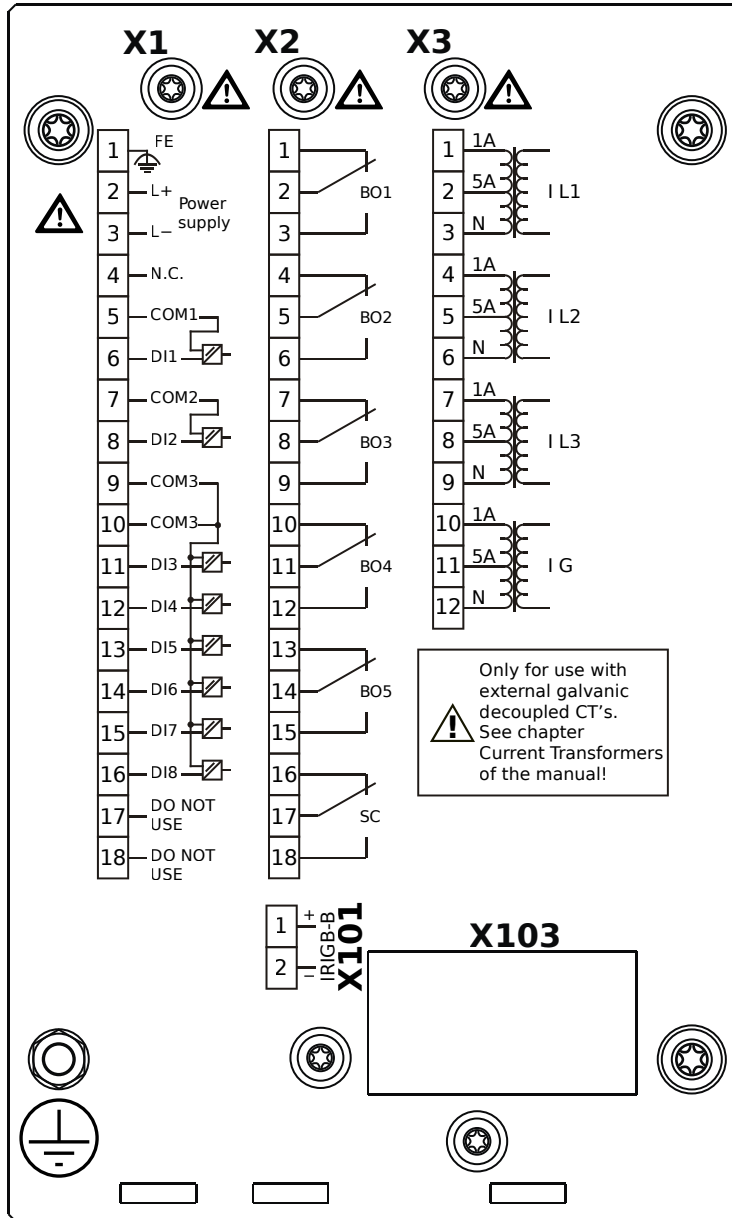
# MRI4-2A0AAA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X

# MRI4-2A0AAB

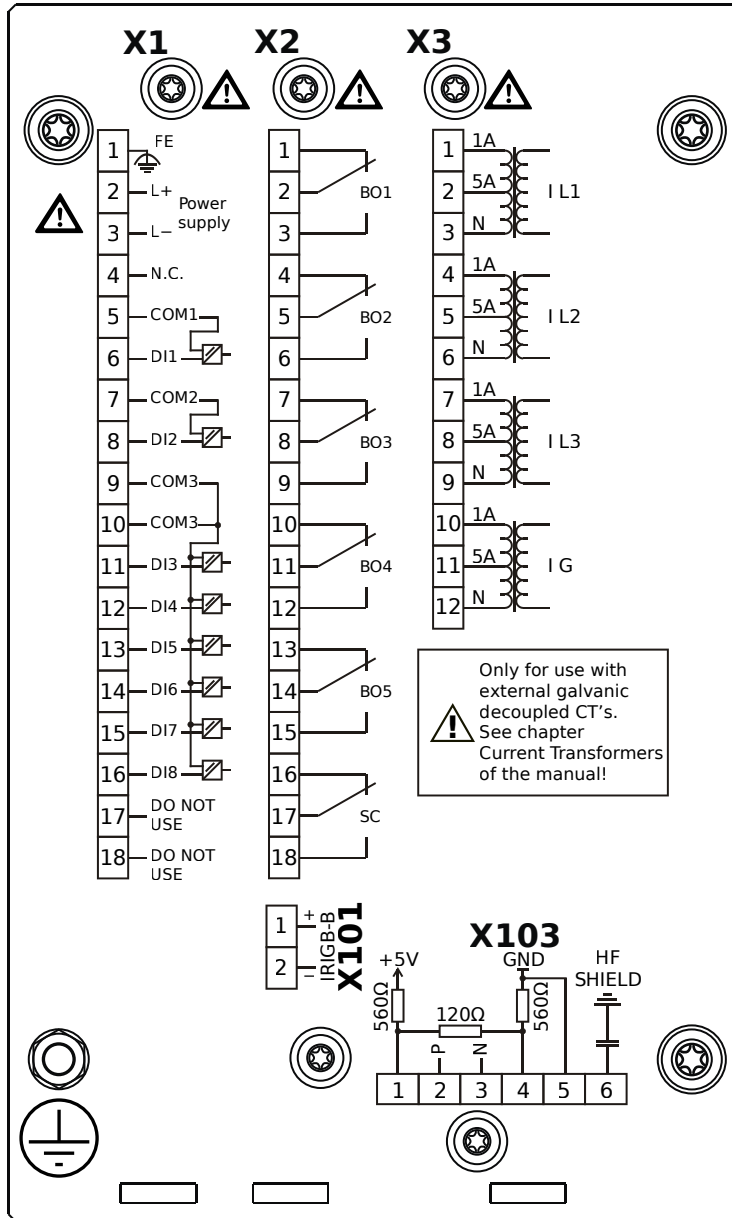


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

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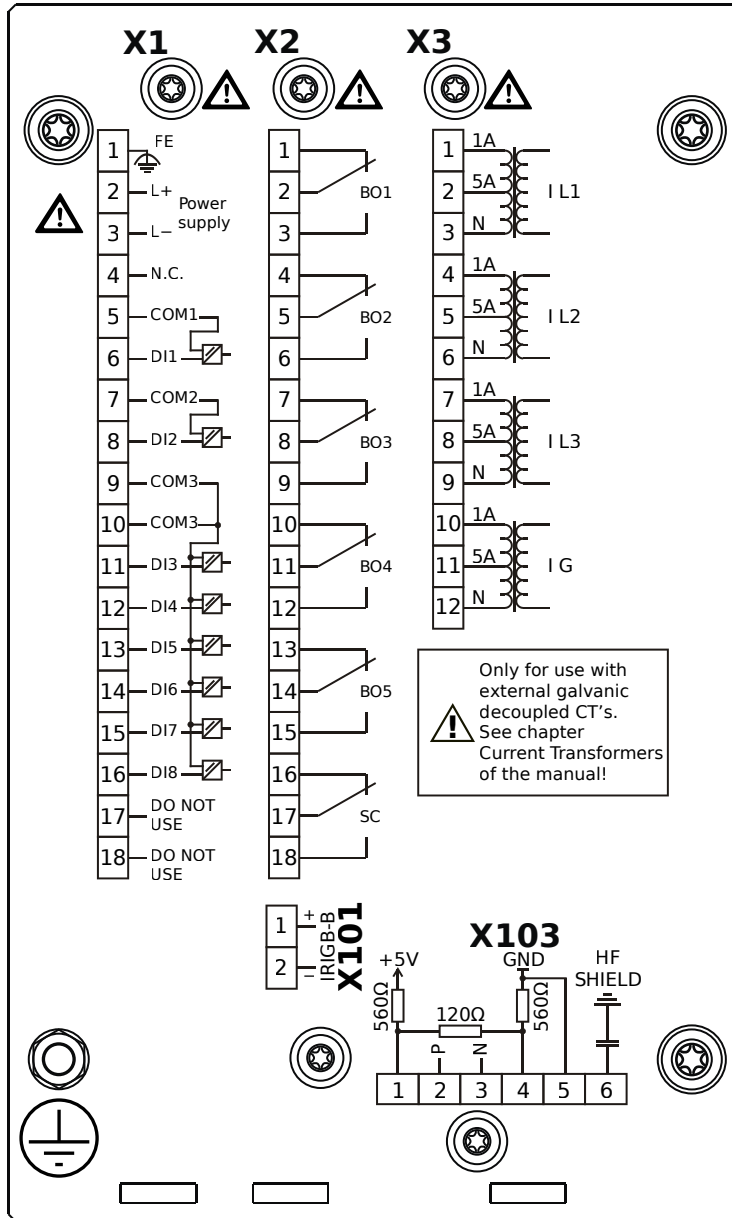
# MRI4-2A0ABA



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- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

# MRI4-2A0ABB

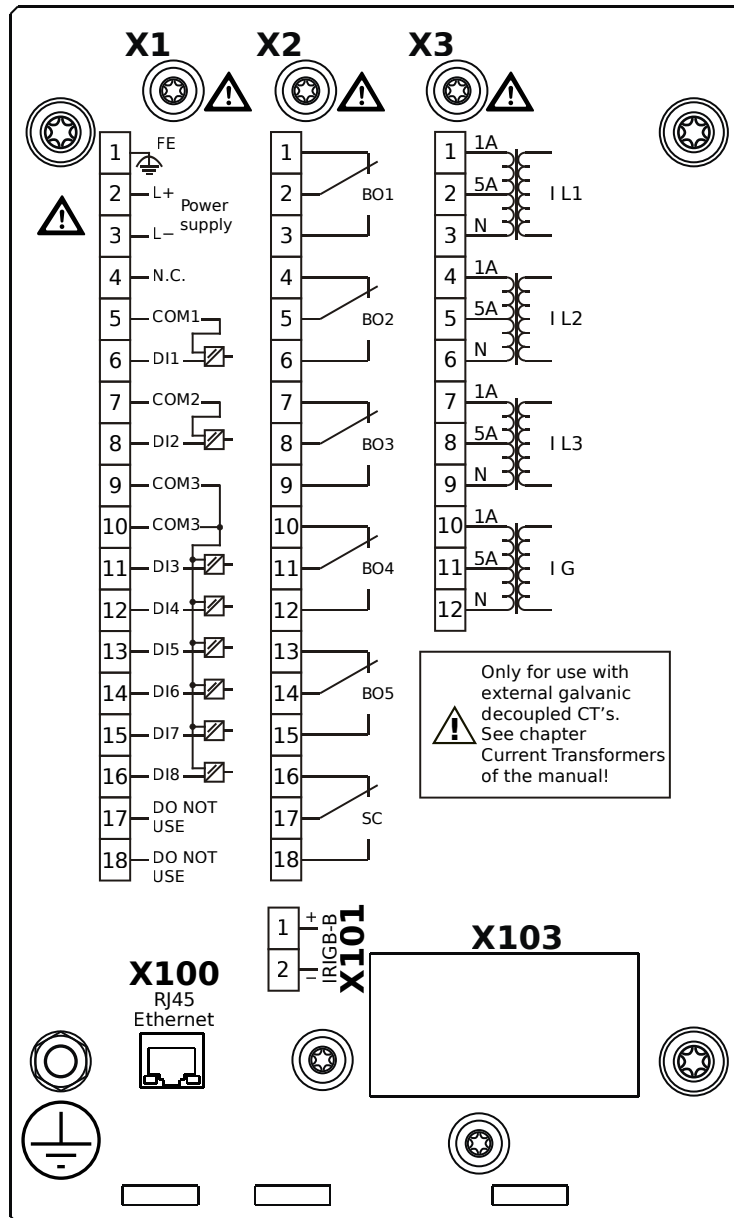


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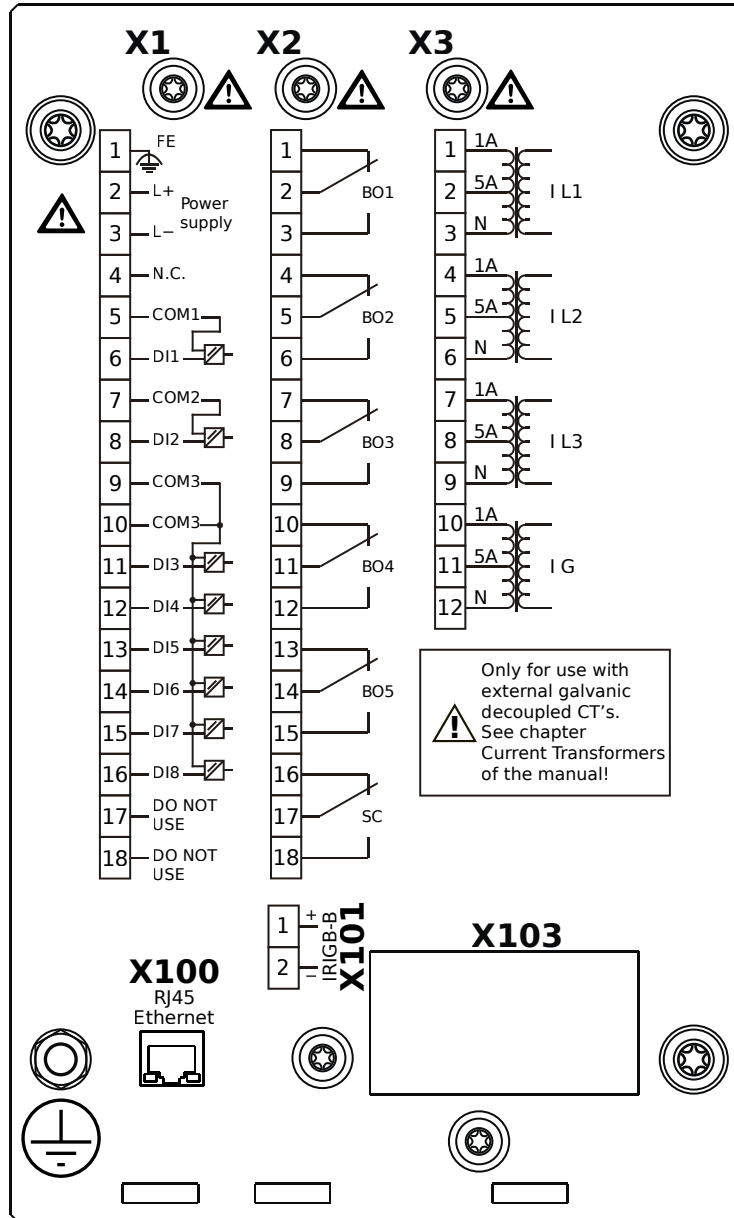
# MRI4-2A0ACA



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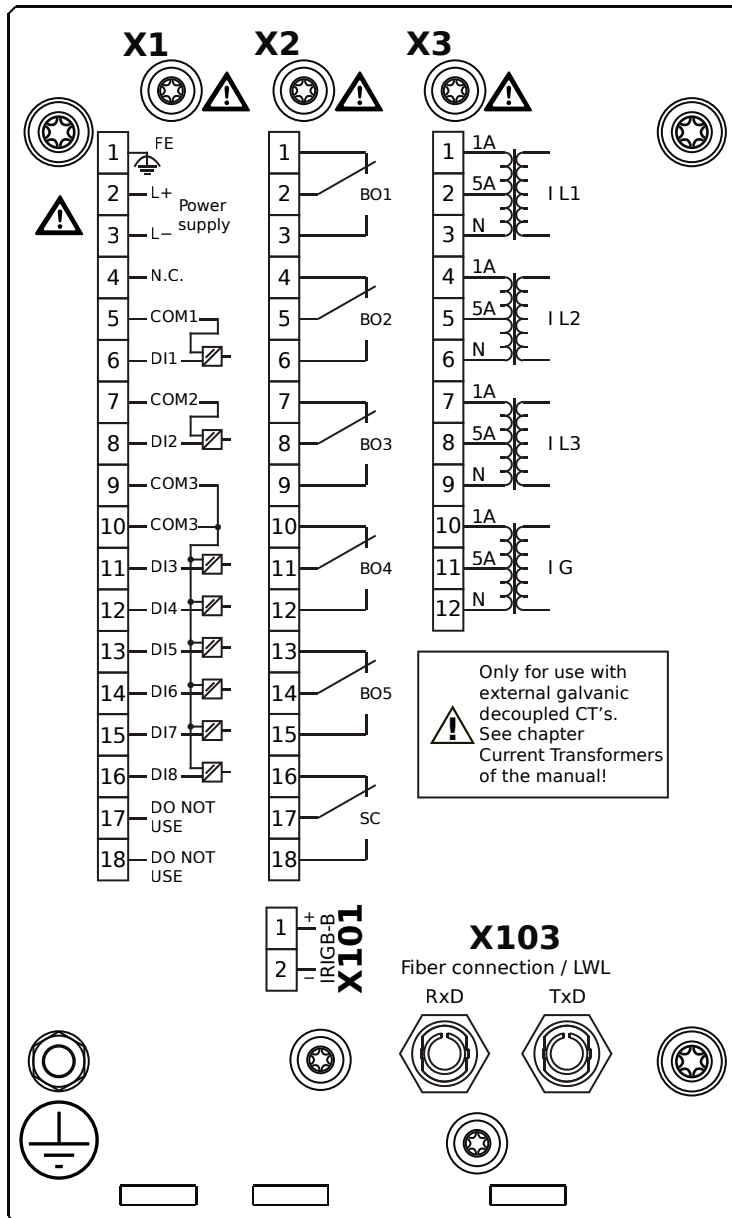


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# MRI4-2A0ADA

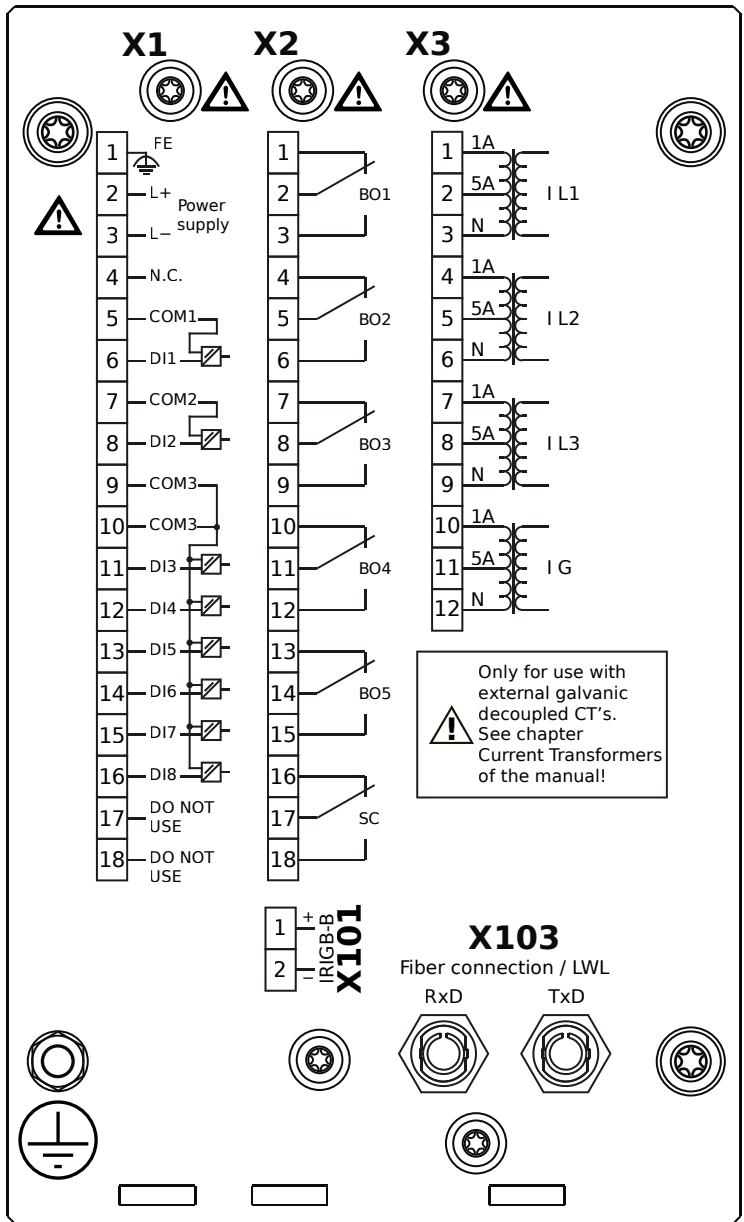


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- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector



# MRI4-2A0ADB

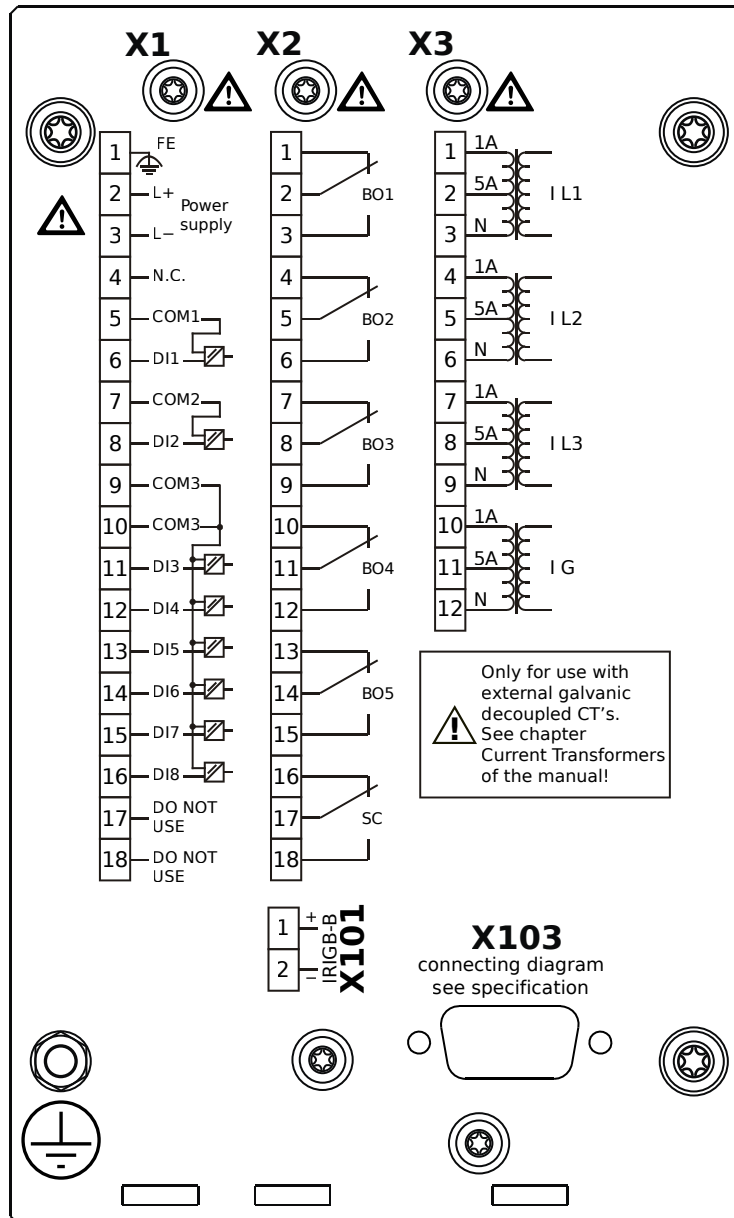


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- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

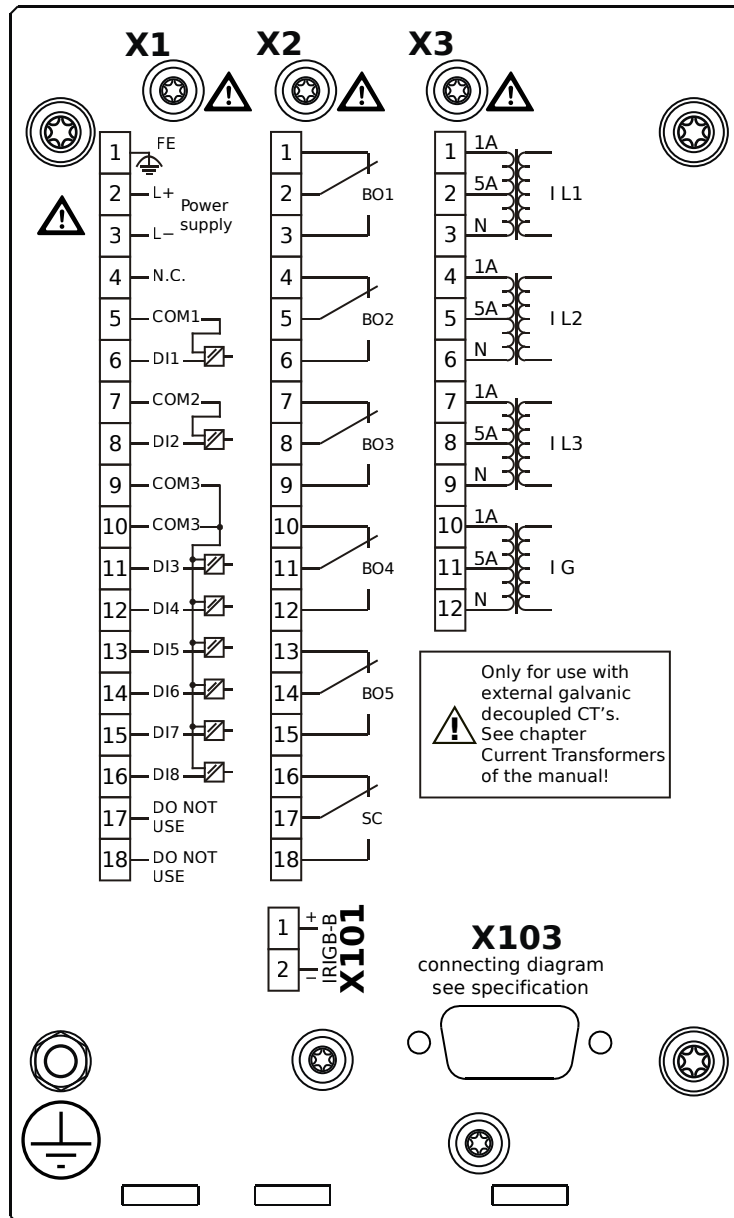
# MRI4-2A0AEA



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# MRI4-2A0AEB

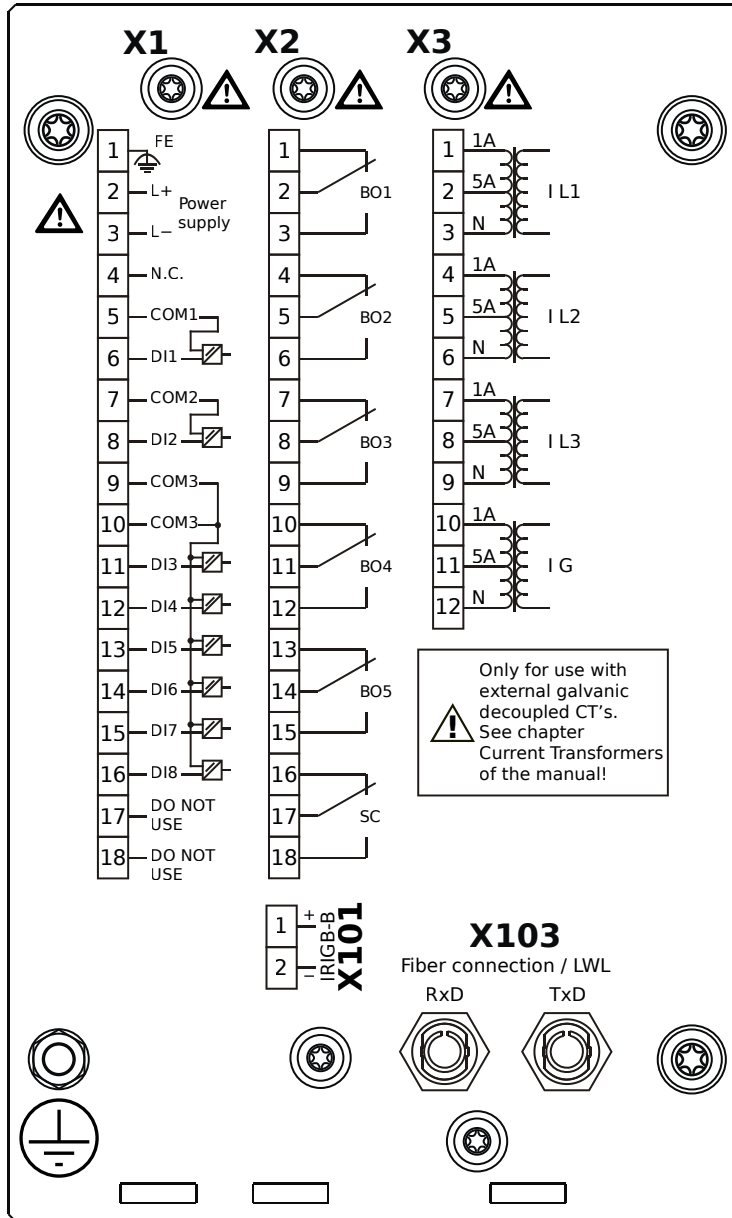


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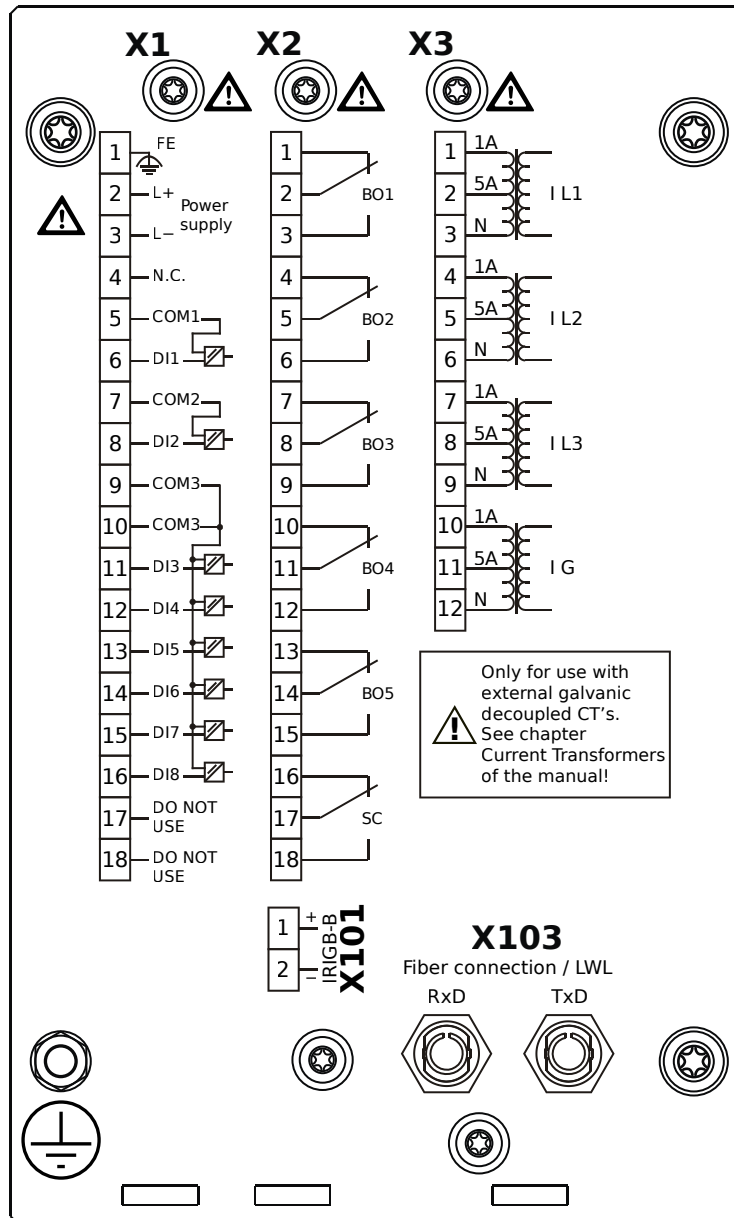
# MRI4-2A0AFA



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# MRI4-2A0AFB



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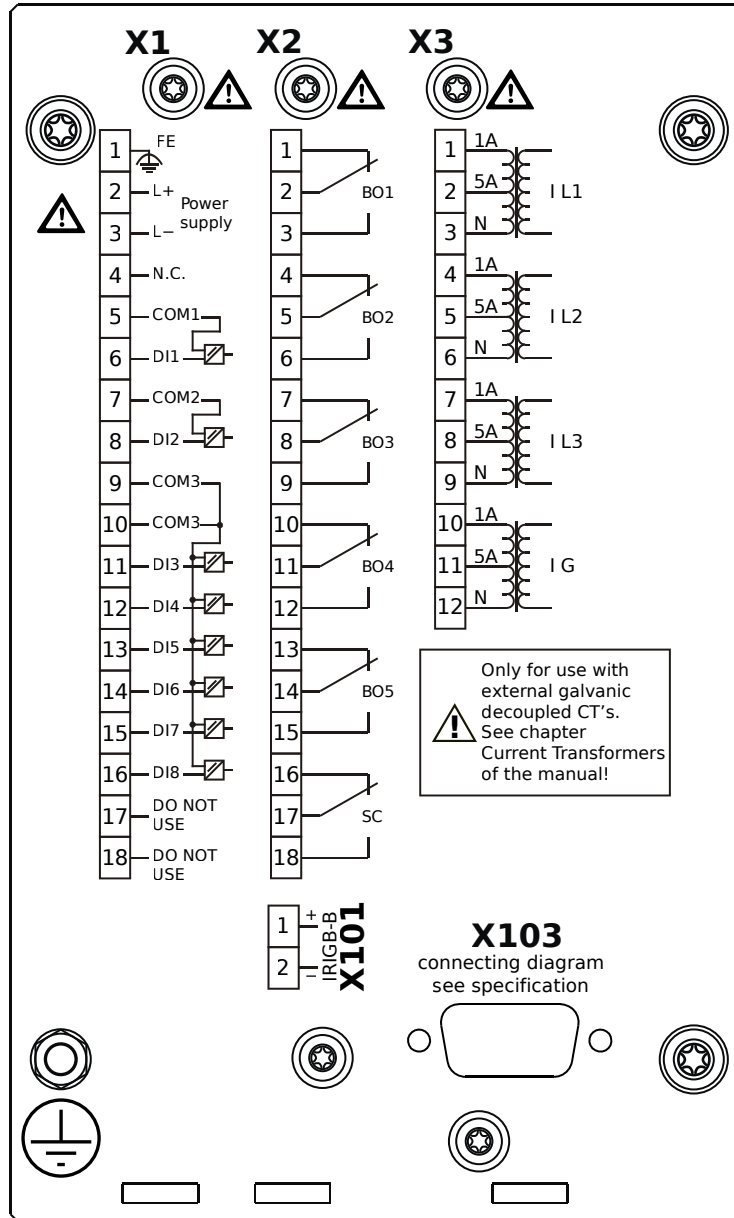
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

**X3** – TI: Standard current measuring card

**X101** – IRIG-B00X

**X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

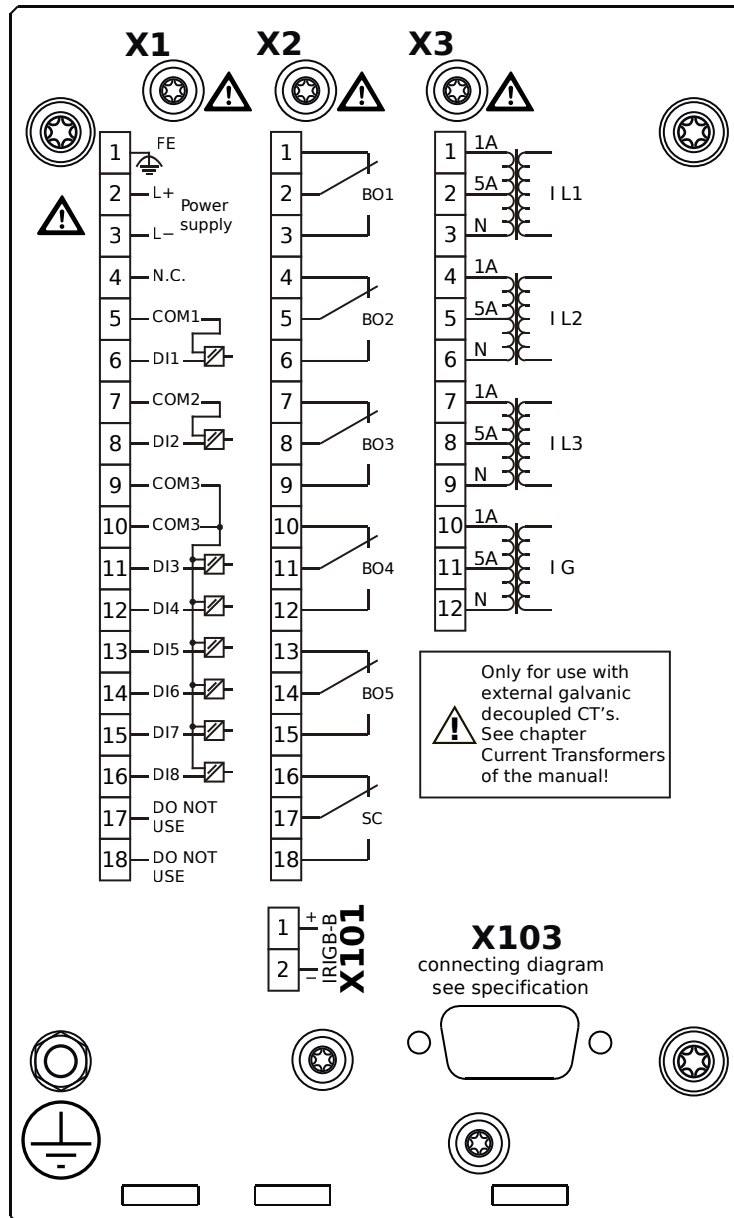
# MRI4-2A0AGA



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# MRI4-2A0AGB

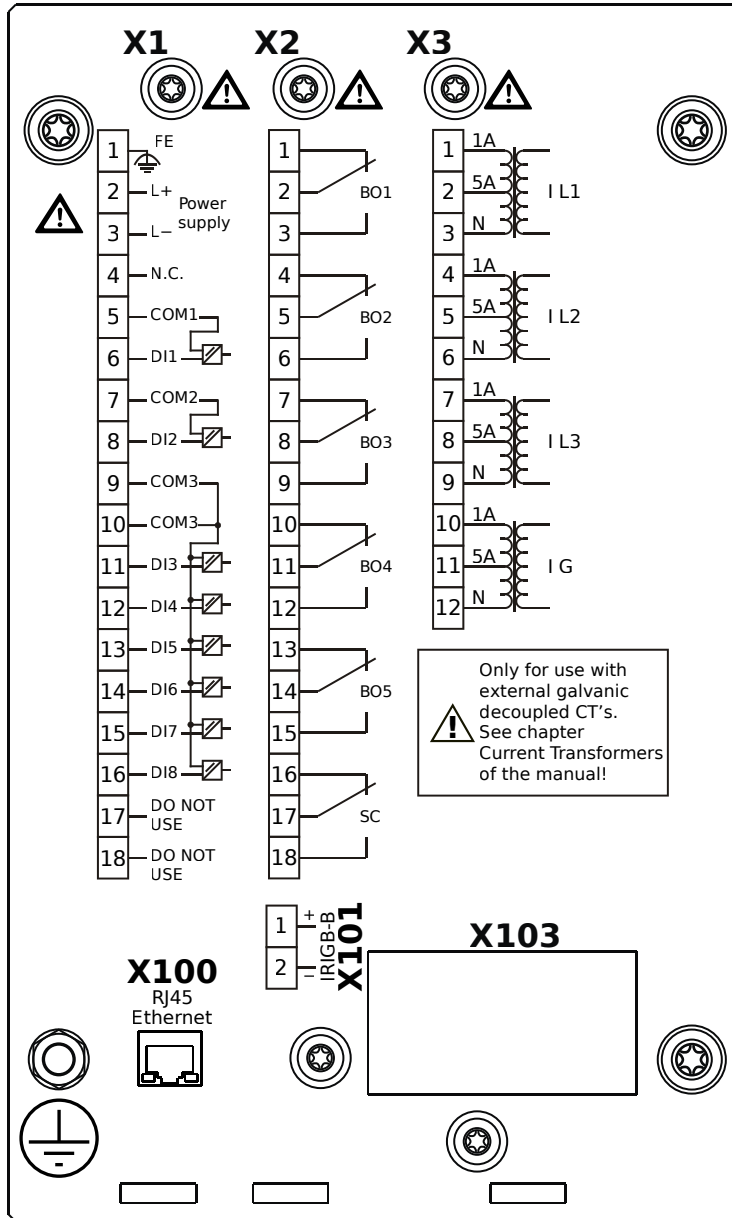


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# MRI4-2A0AHA

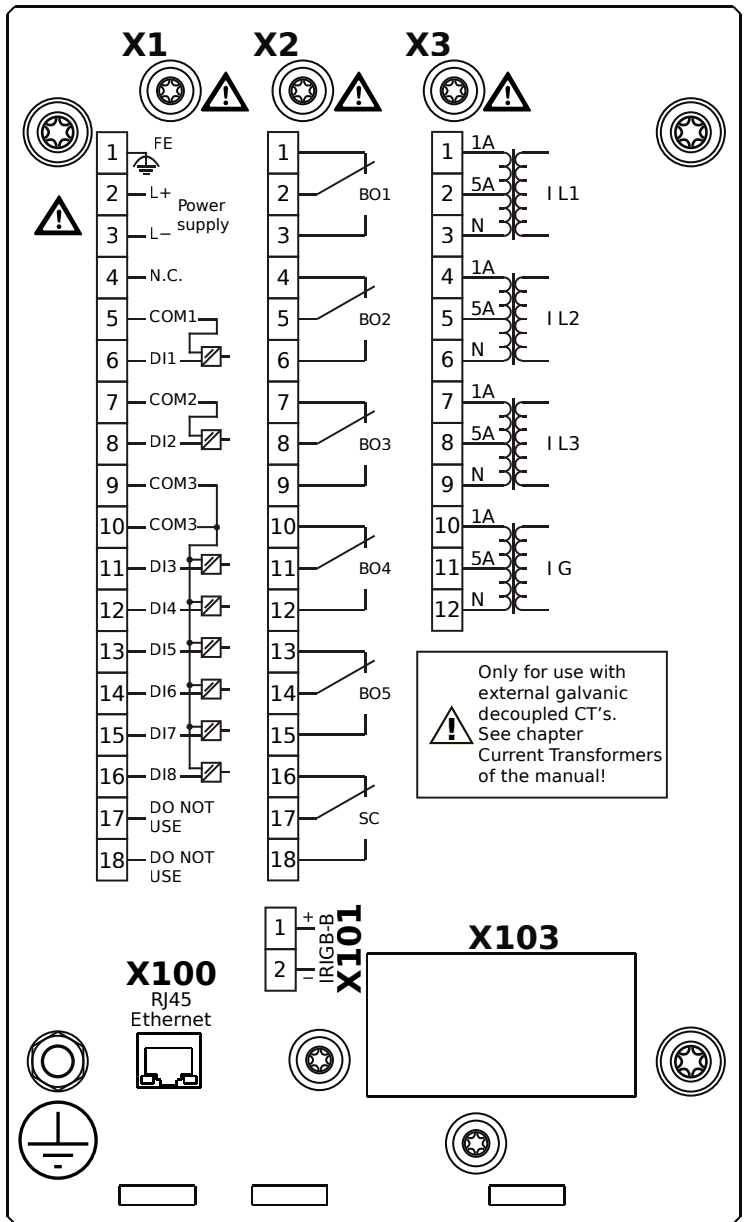


## Housing B1, small display, door mounting

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- X101** – IRIG-B00X



# MRI4-2A0AHB

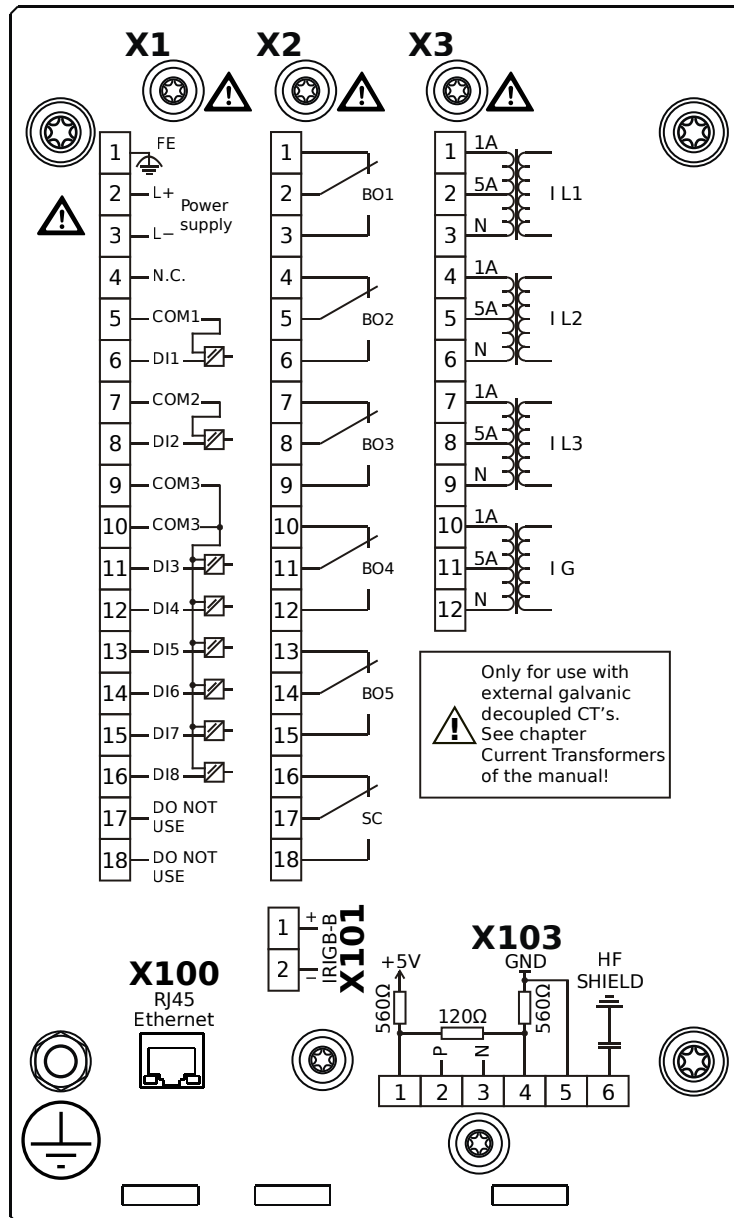


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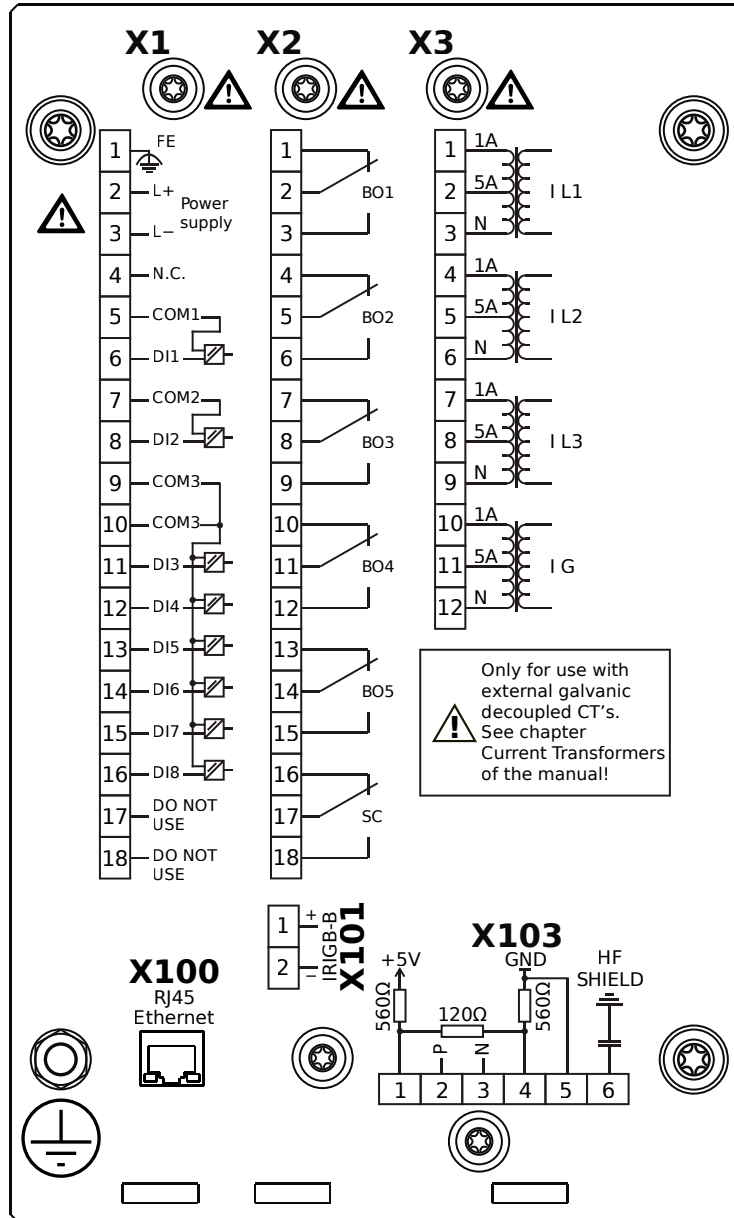
# MRI4-2A0AIA



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- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

# MRI4-2A0AIB

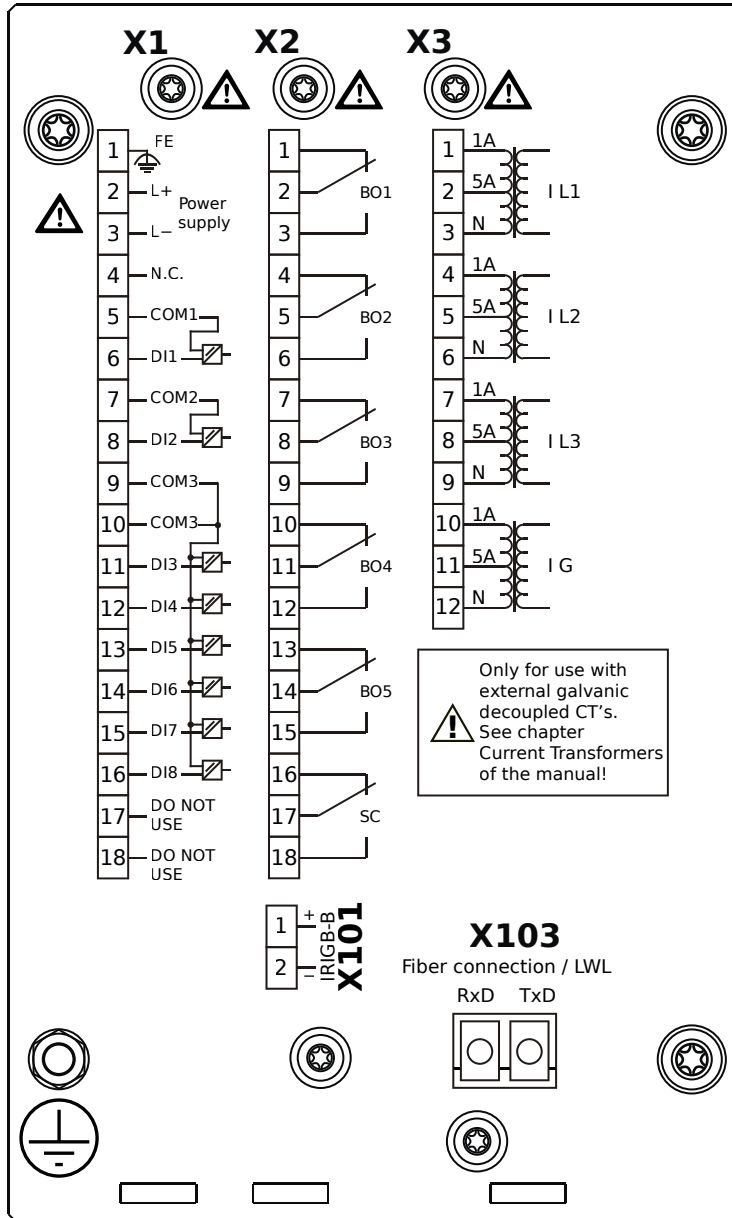


## Housing B1, small display, door mounting

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- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

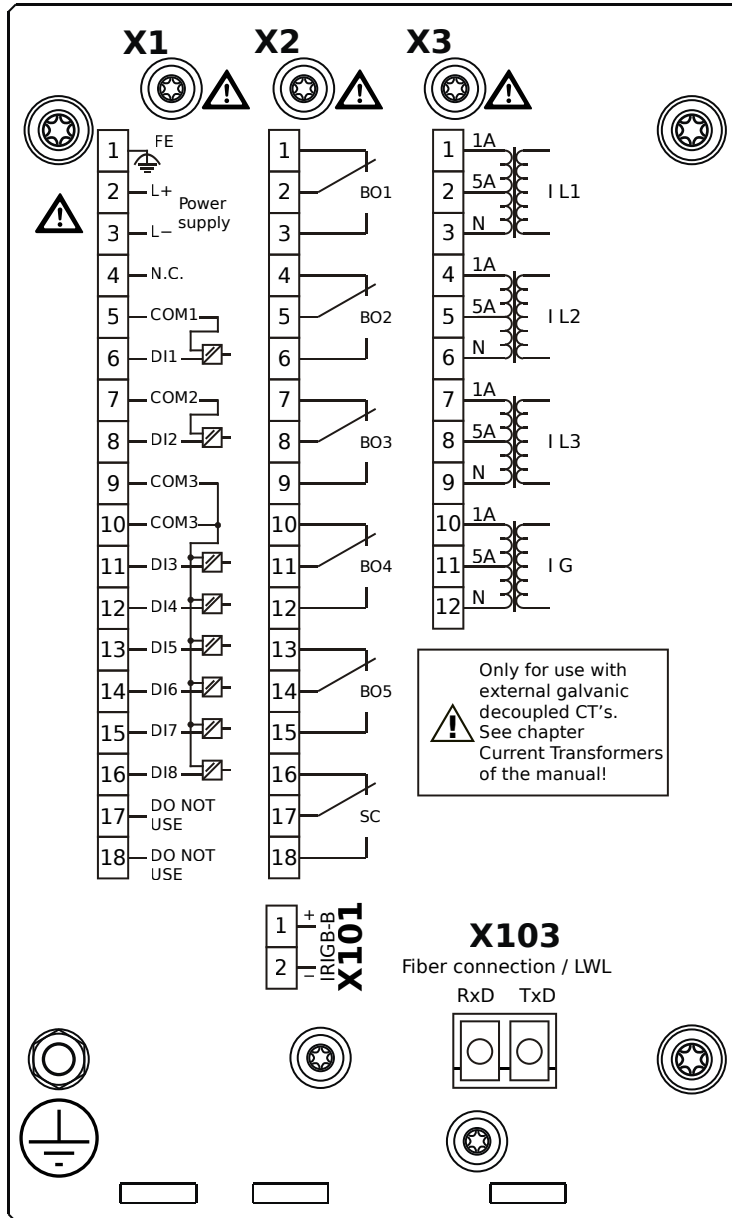
# MRI4-2A0AKA



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# MRI4-2A0AKB



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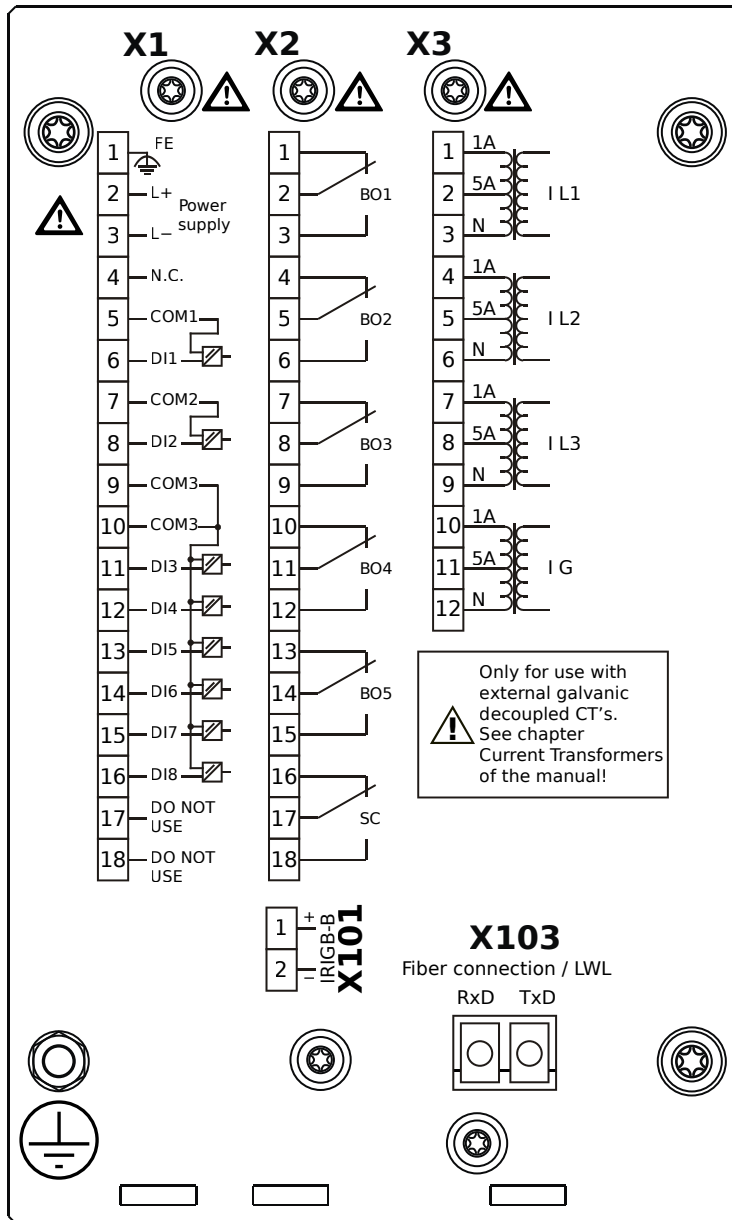
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

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**X101** – IRIG-B00X

**X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

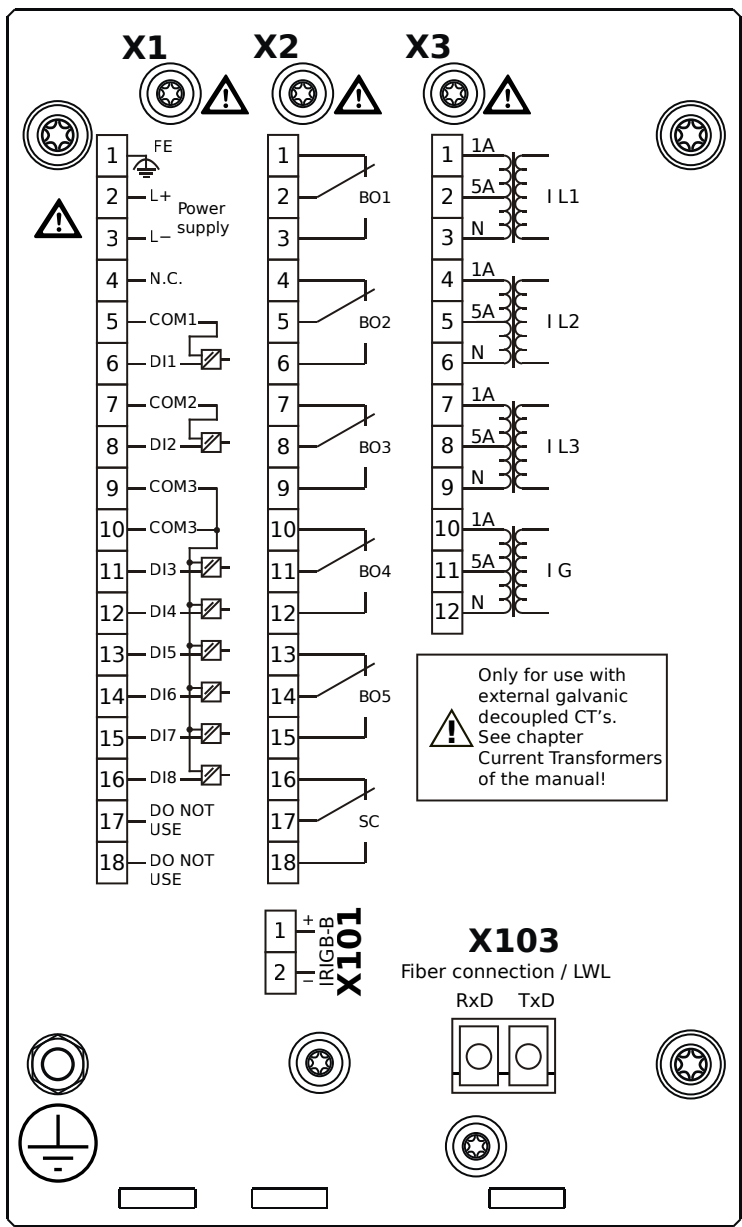
# MRI4-2A0ALA



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# MRI4-2A0ALB

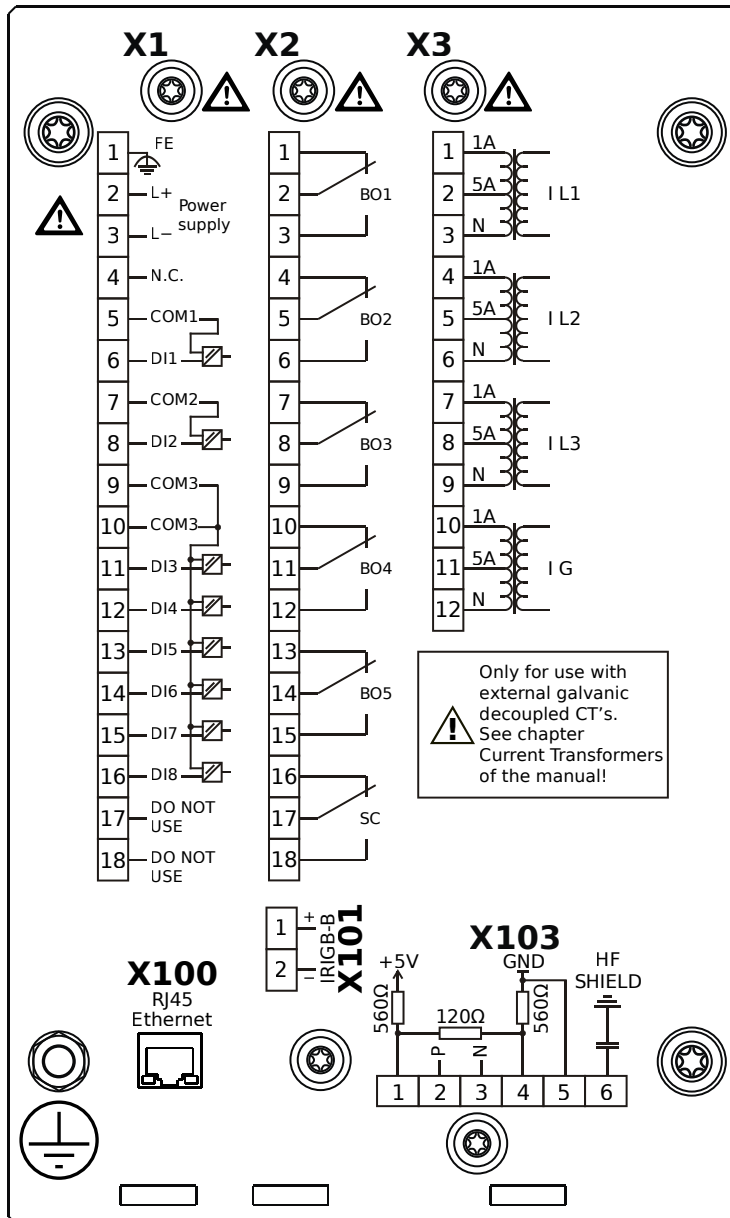


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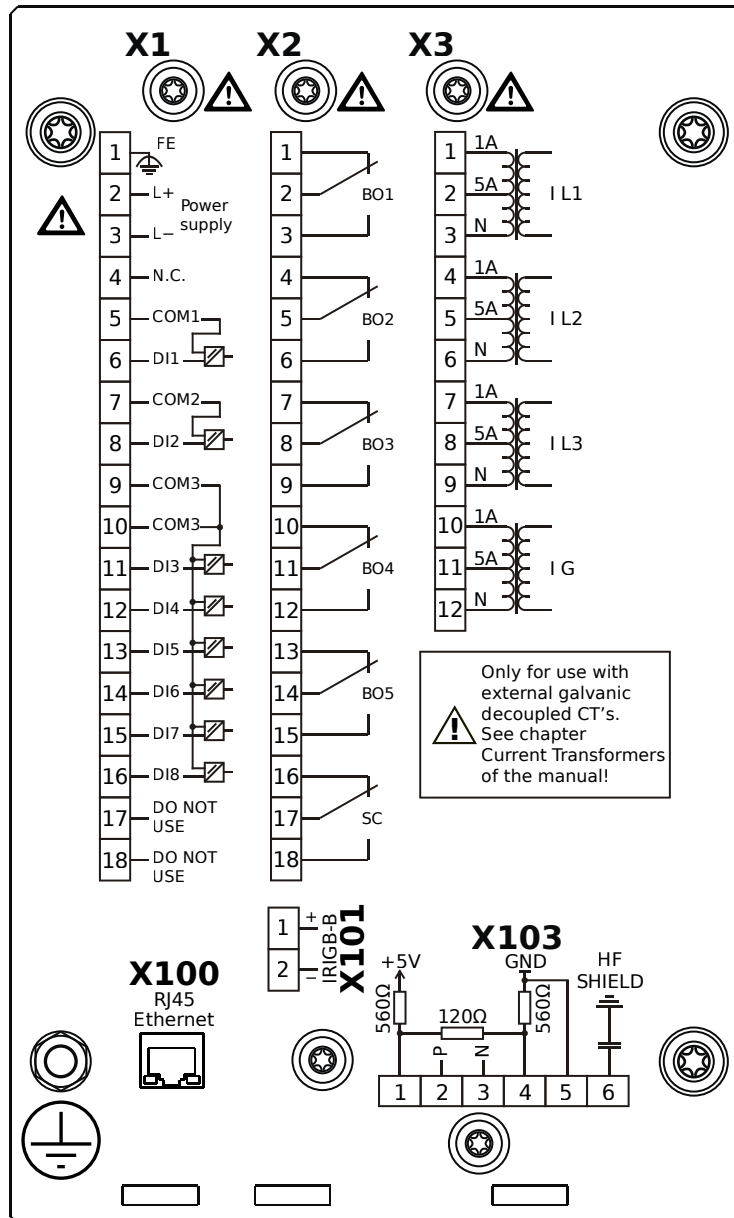


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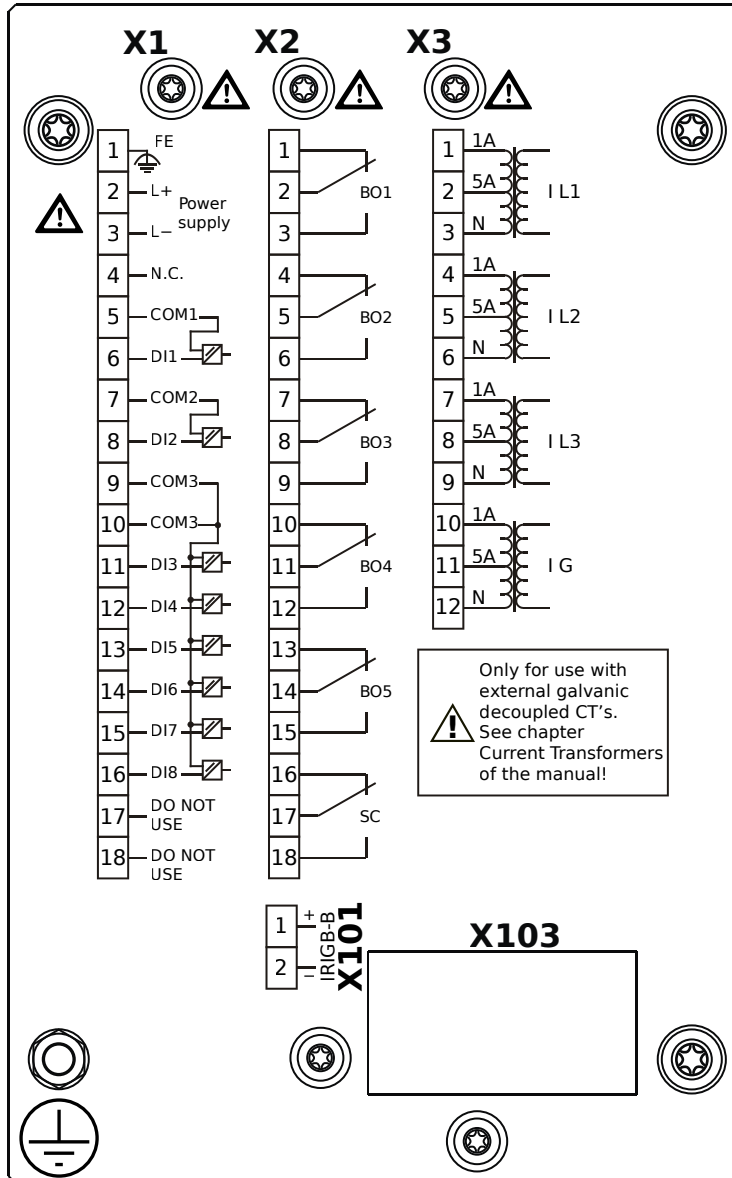


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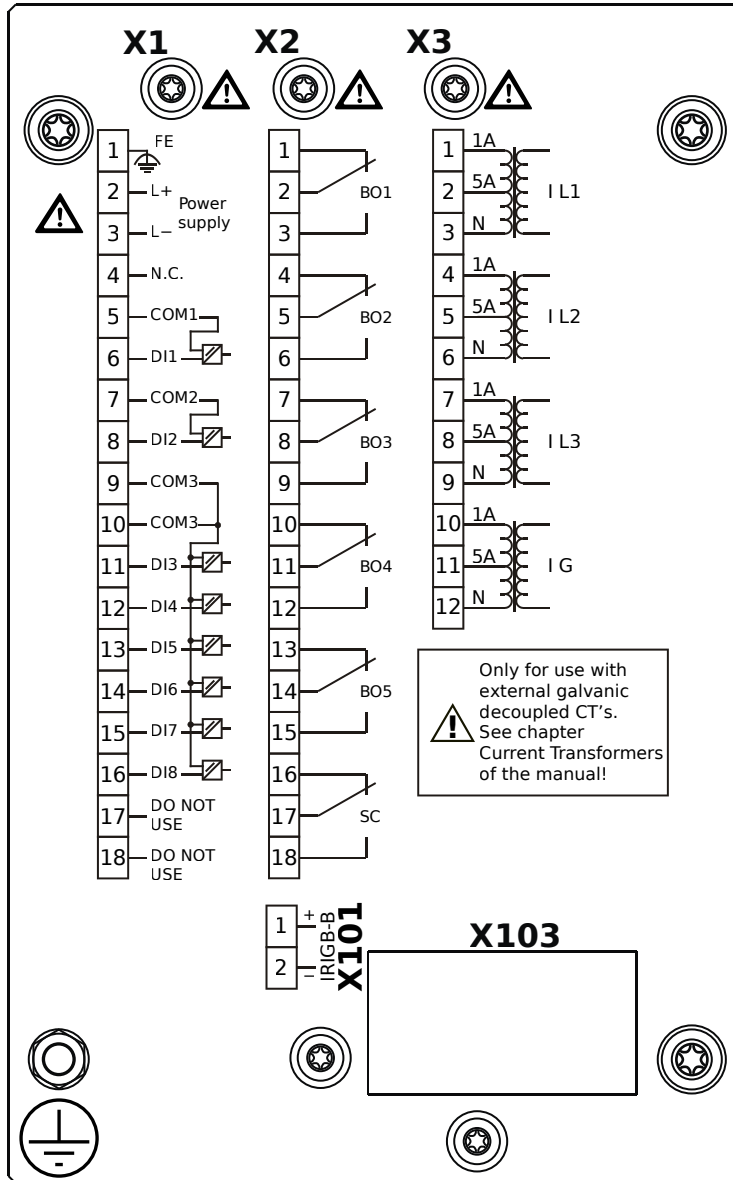
# MRI4-2A0BAA



## Housing B1, small display, 19" rack mounting

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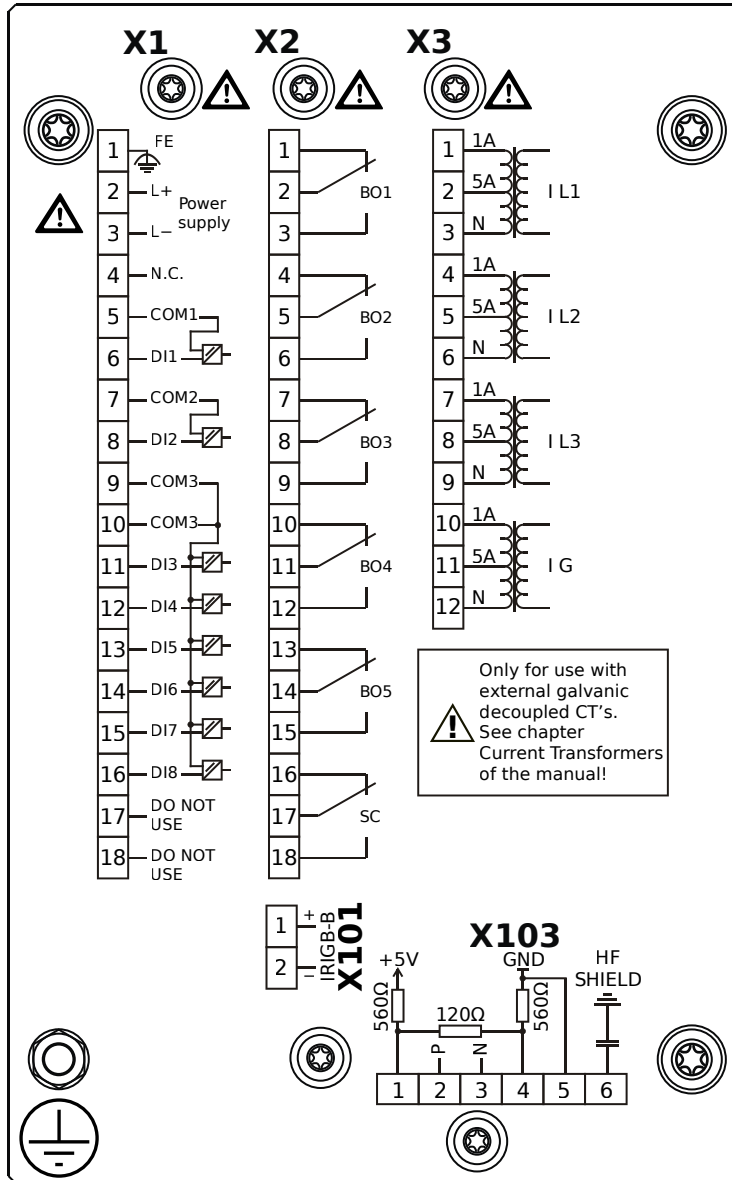


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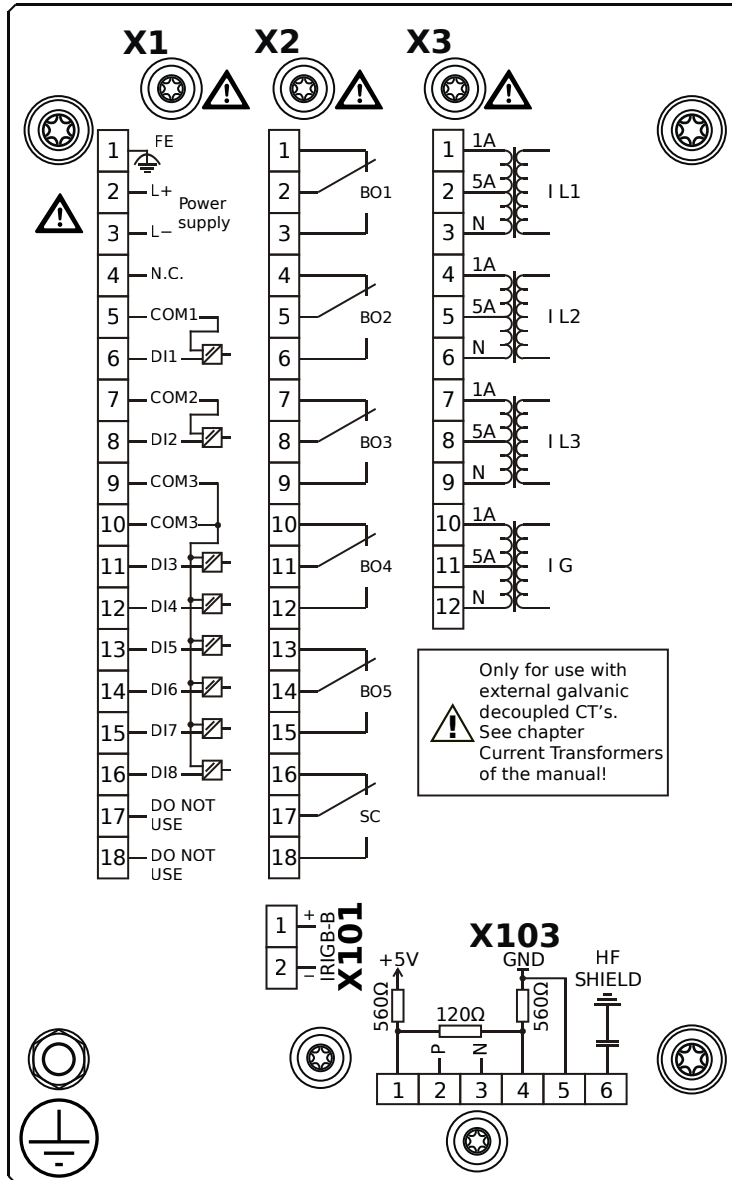
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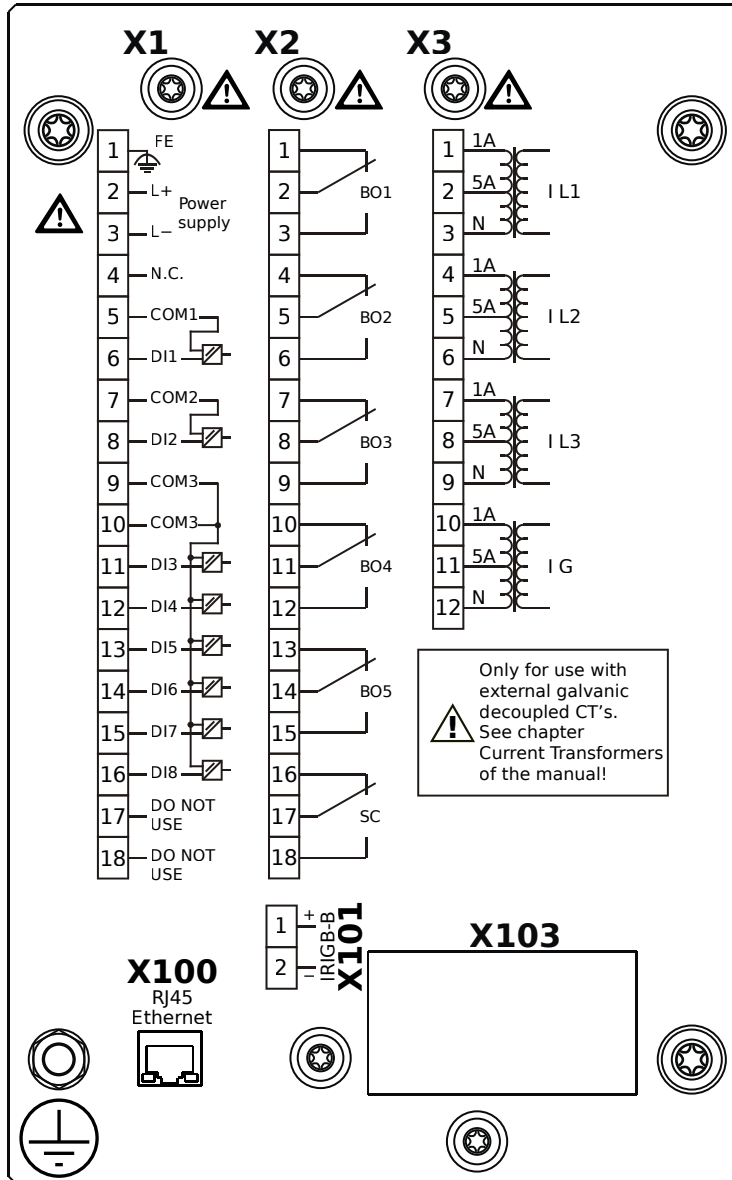
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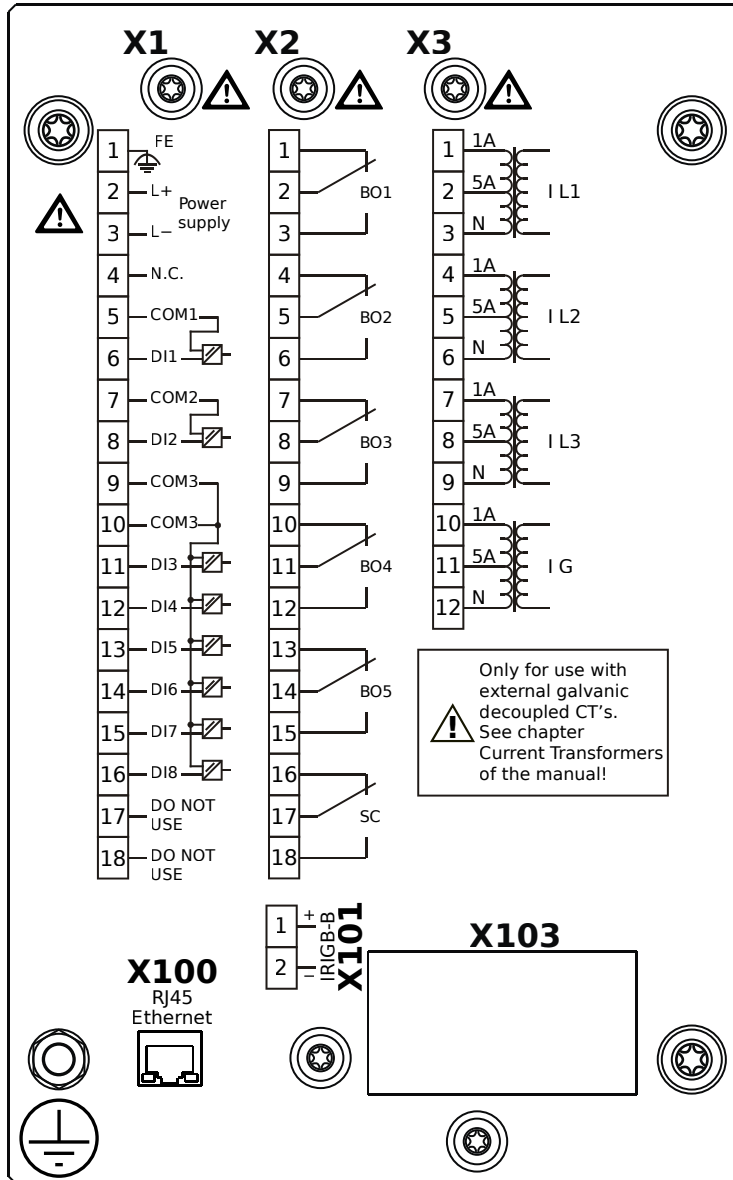
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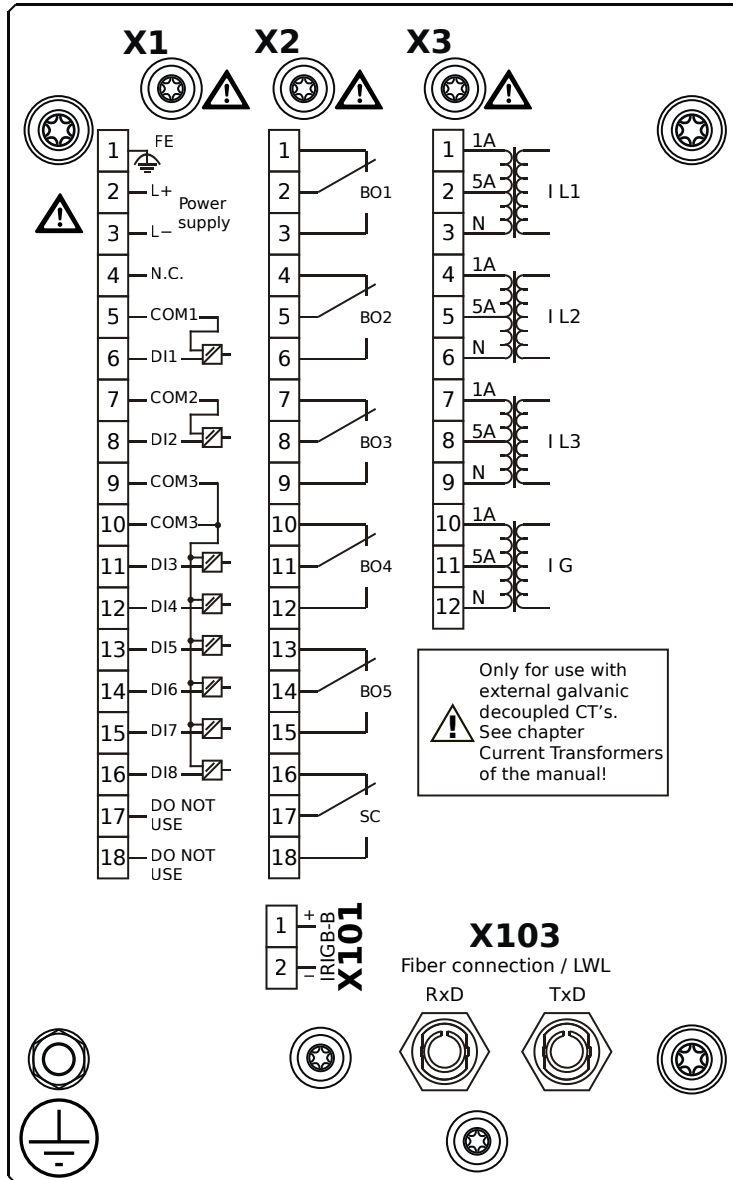


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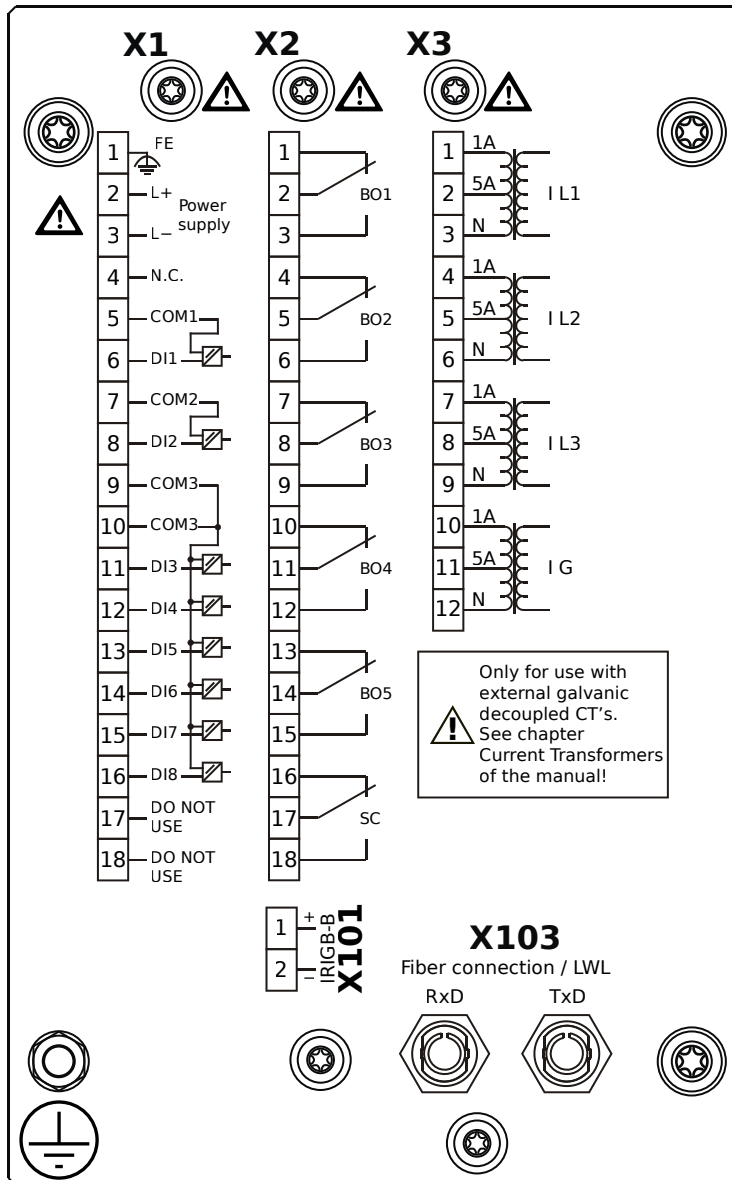


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# MRI4-2A0BDB

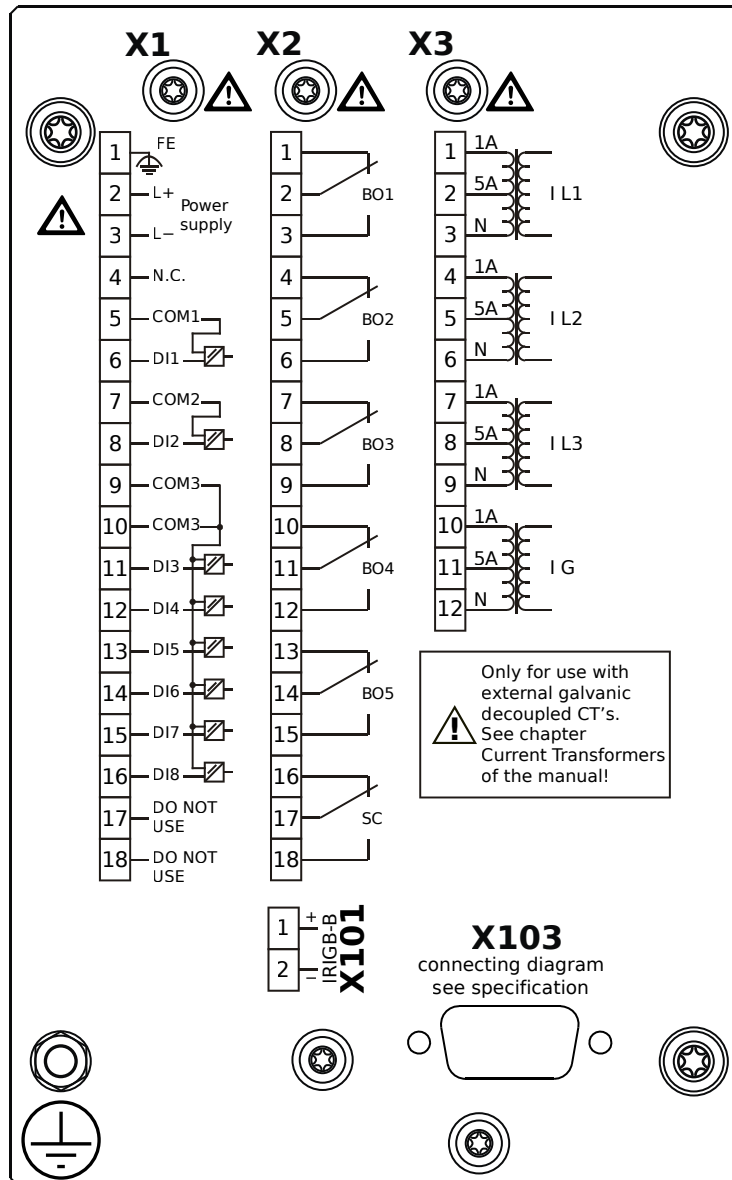


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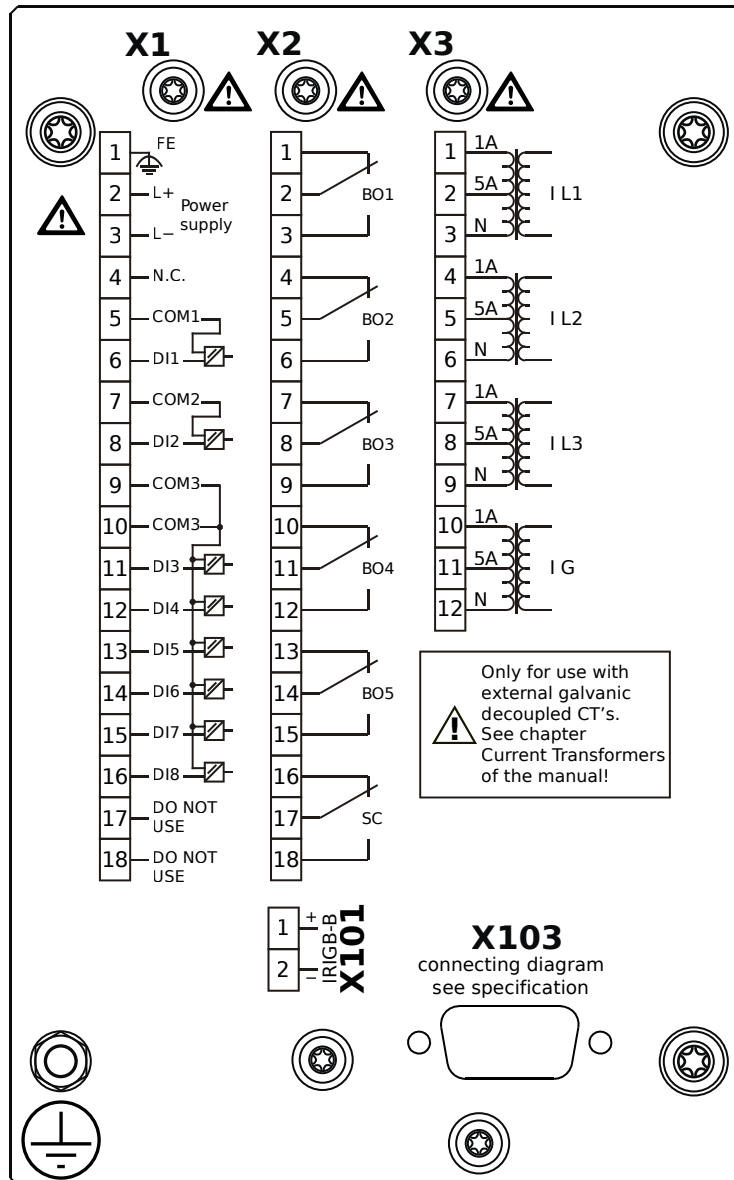
# MRI4-2A0BEA



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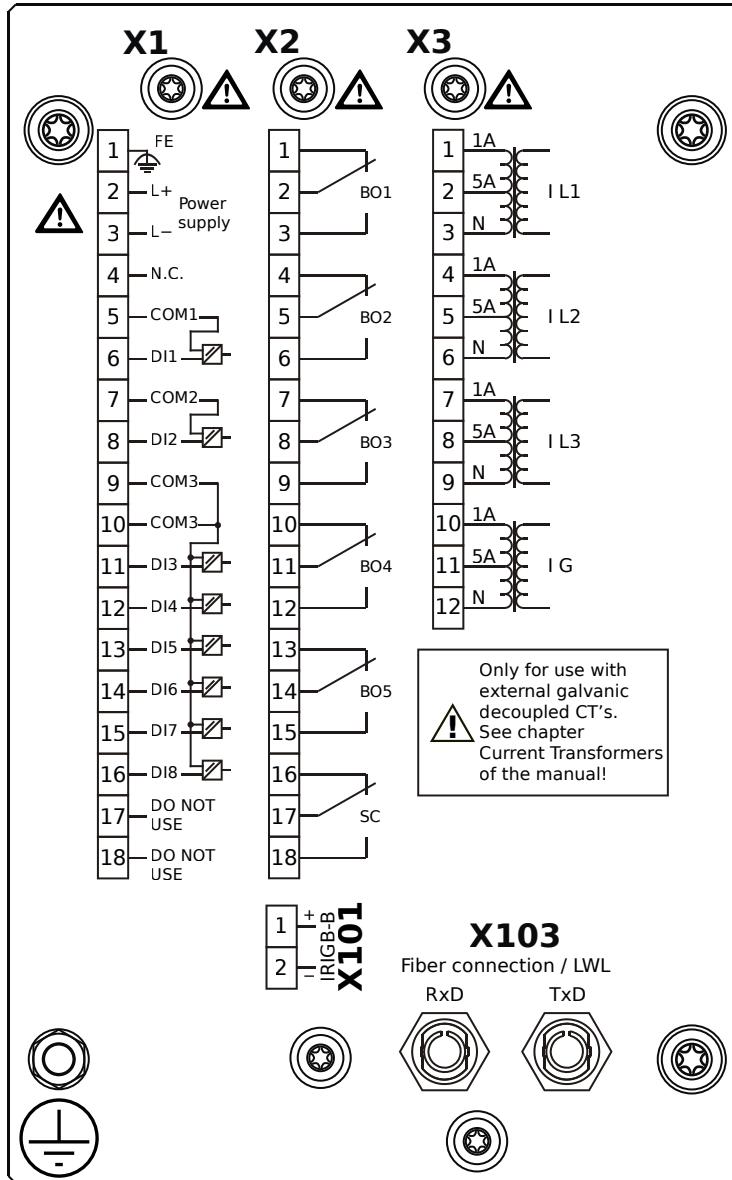


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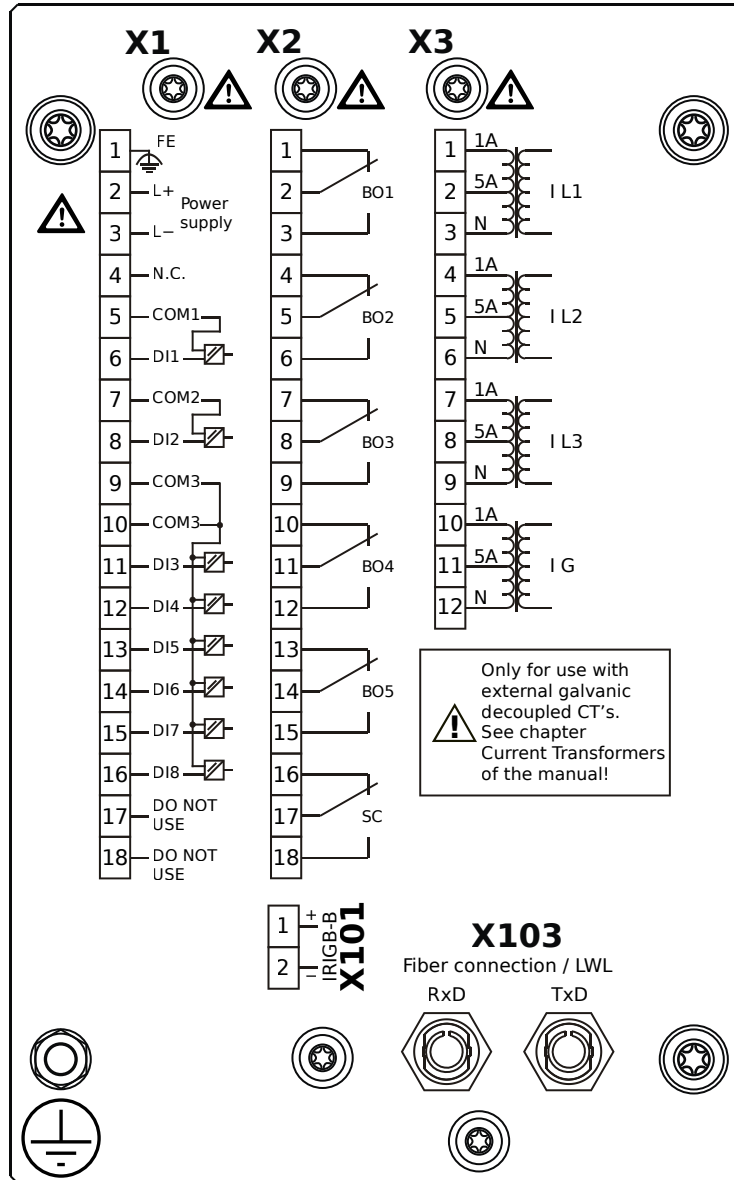
# MRI4-2A0BFA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

# MRI4-2A0BFB



## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

**X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

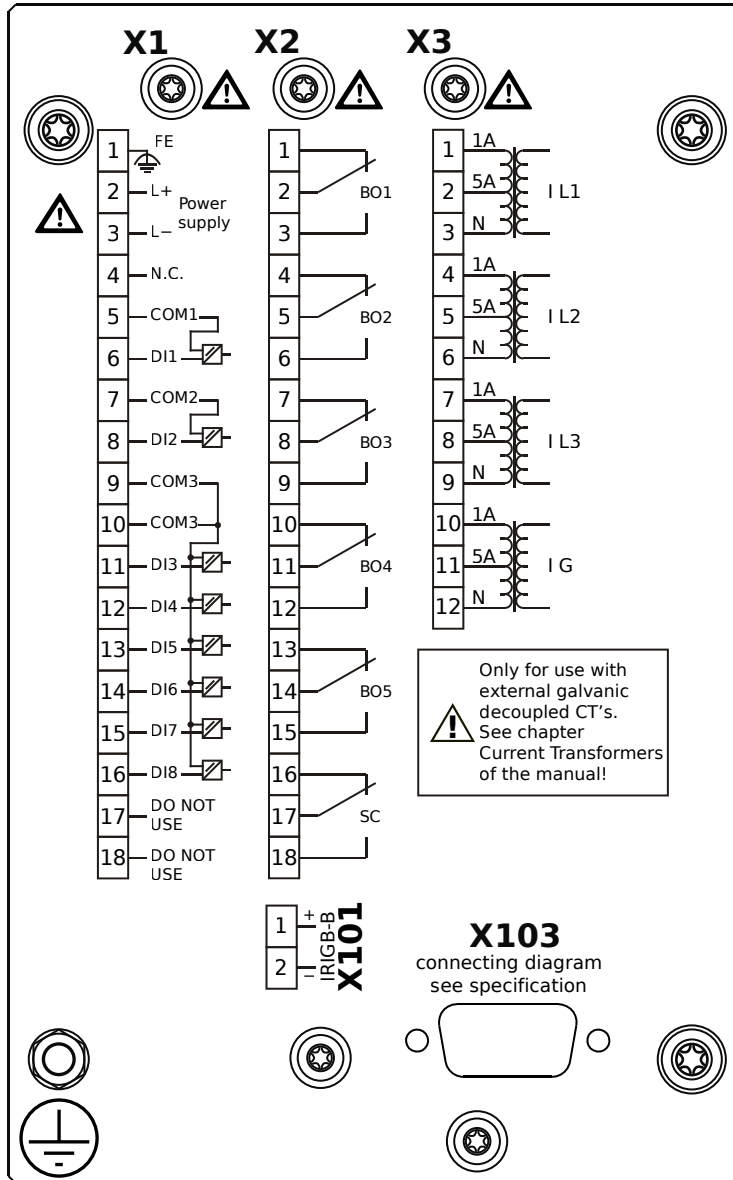
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

**X3** – TI: Standard current measuring card

**X101** – IRIG-B00X

**X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

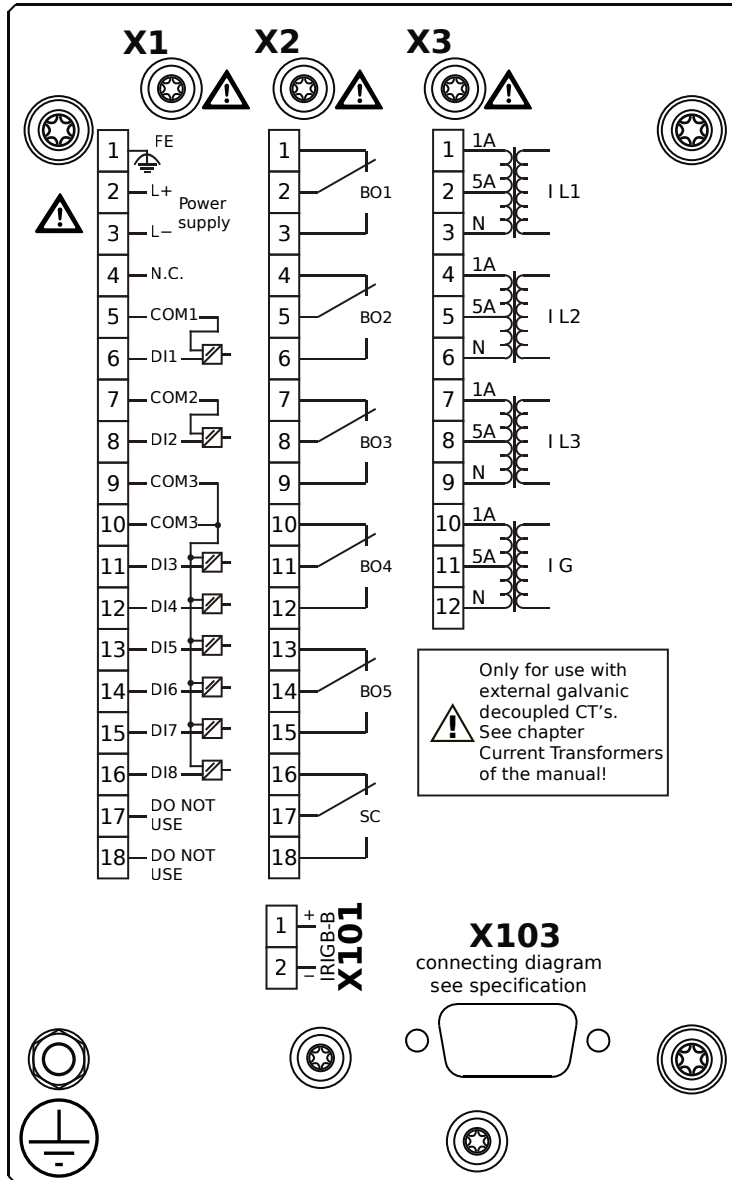
# MRI4-2A0BGA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A0BGB

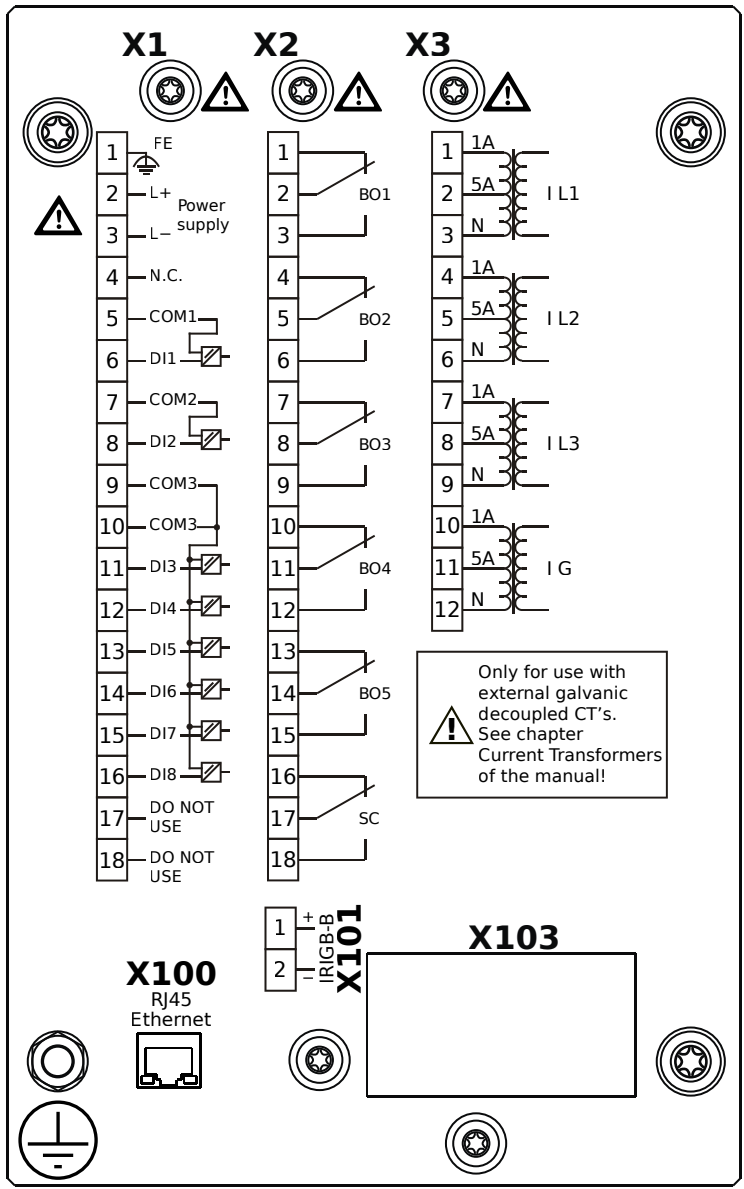


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A0BHA

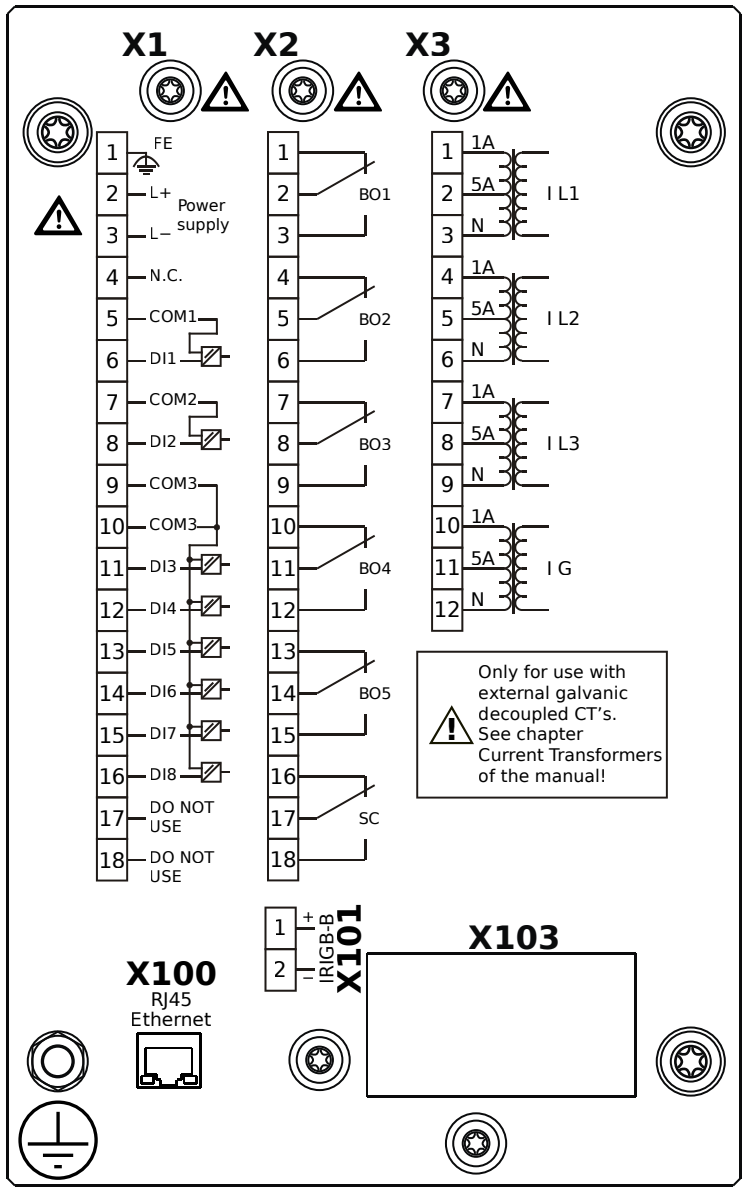


**Housing B1, small display, 19" rack mounting**

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X



# MRI4-2A0BHB

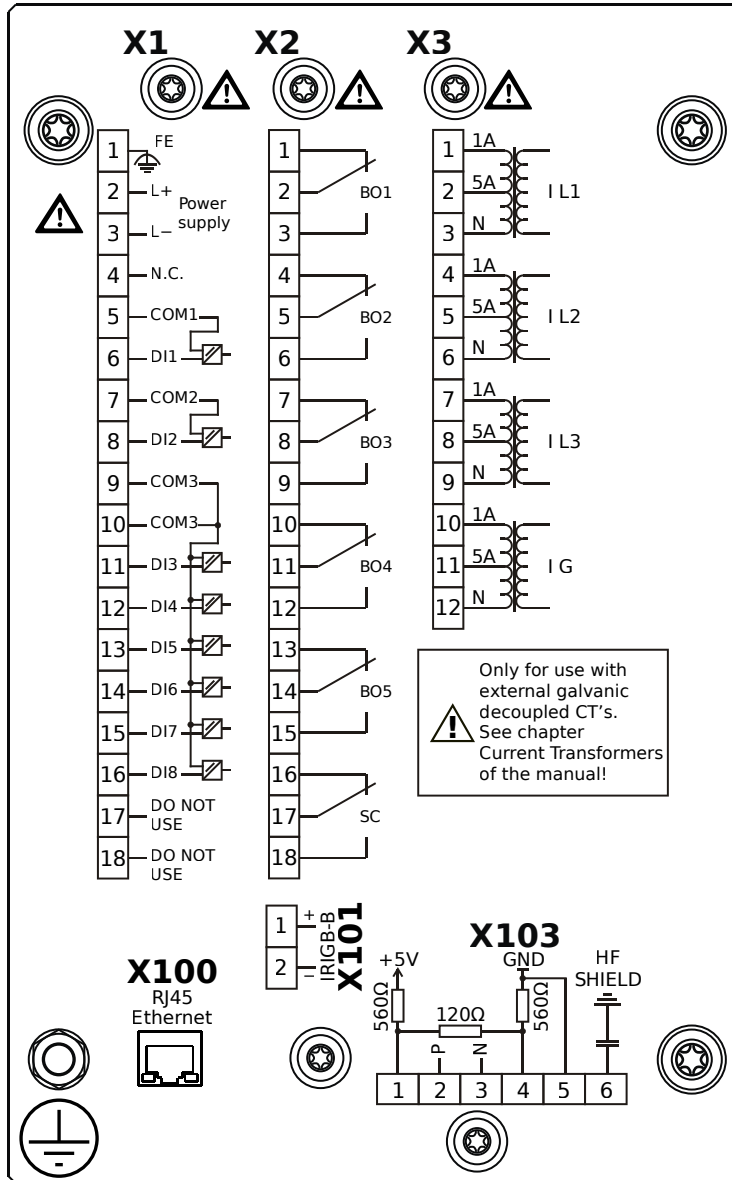


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

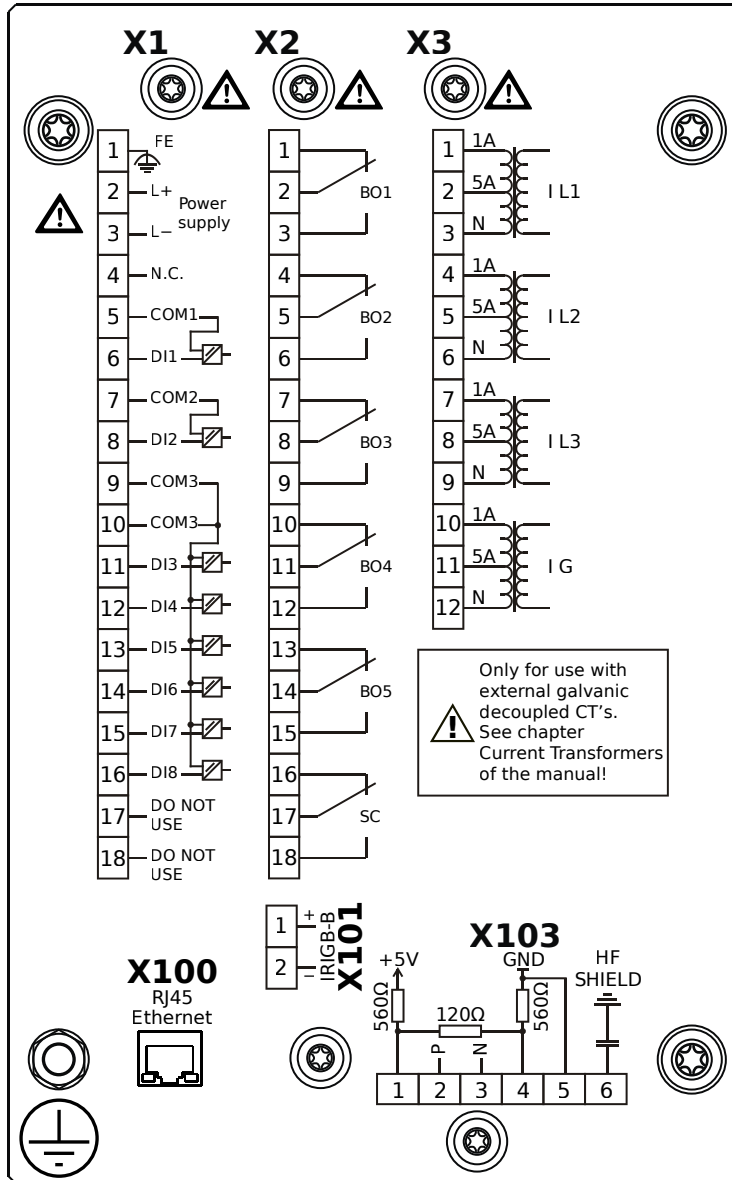
# MRI4-2A0BIA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

# MRI4-2A0BIB

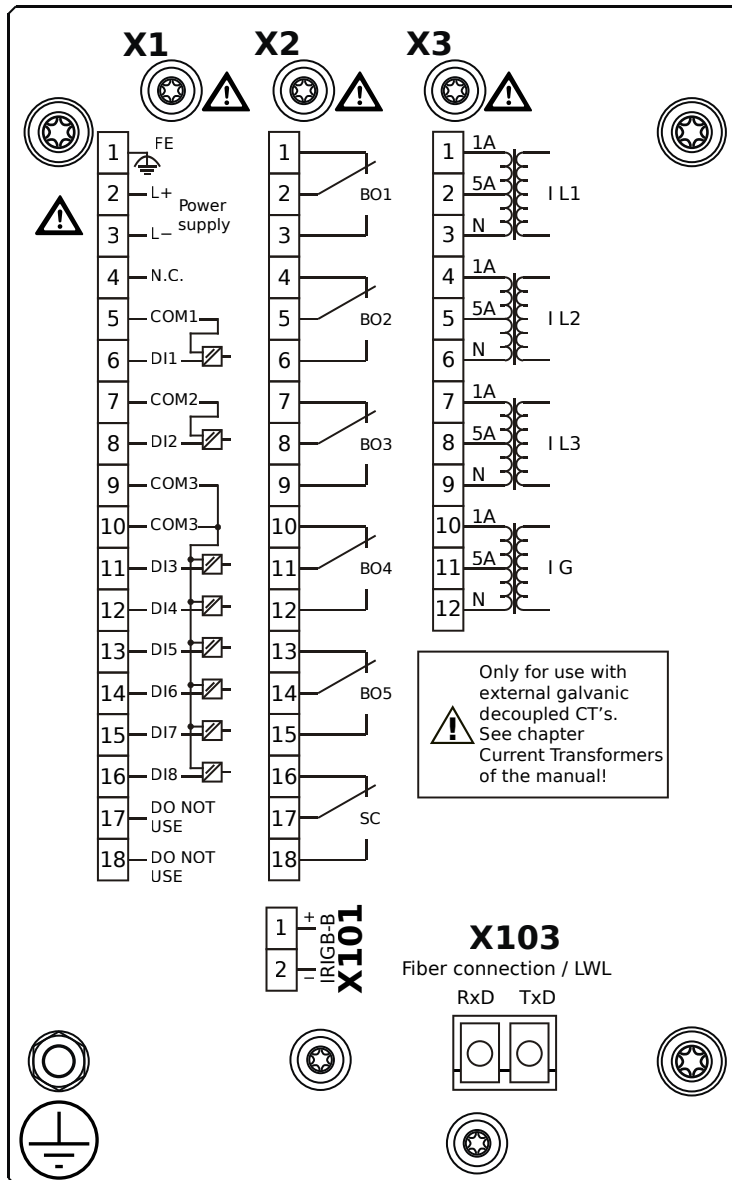


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

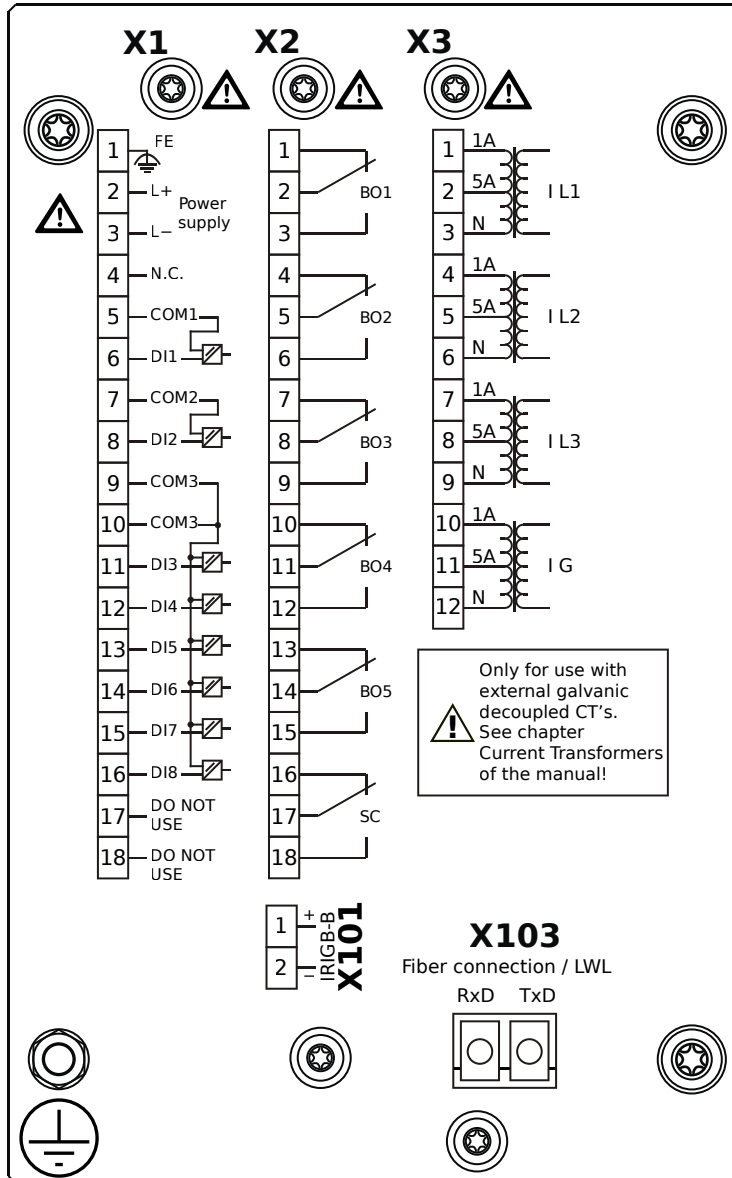
# MRI4-2A0BKA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A0BKB

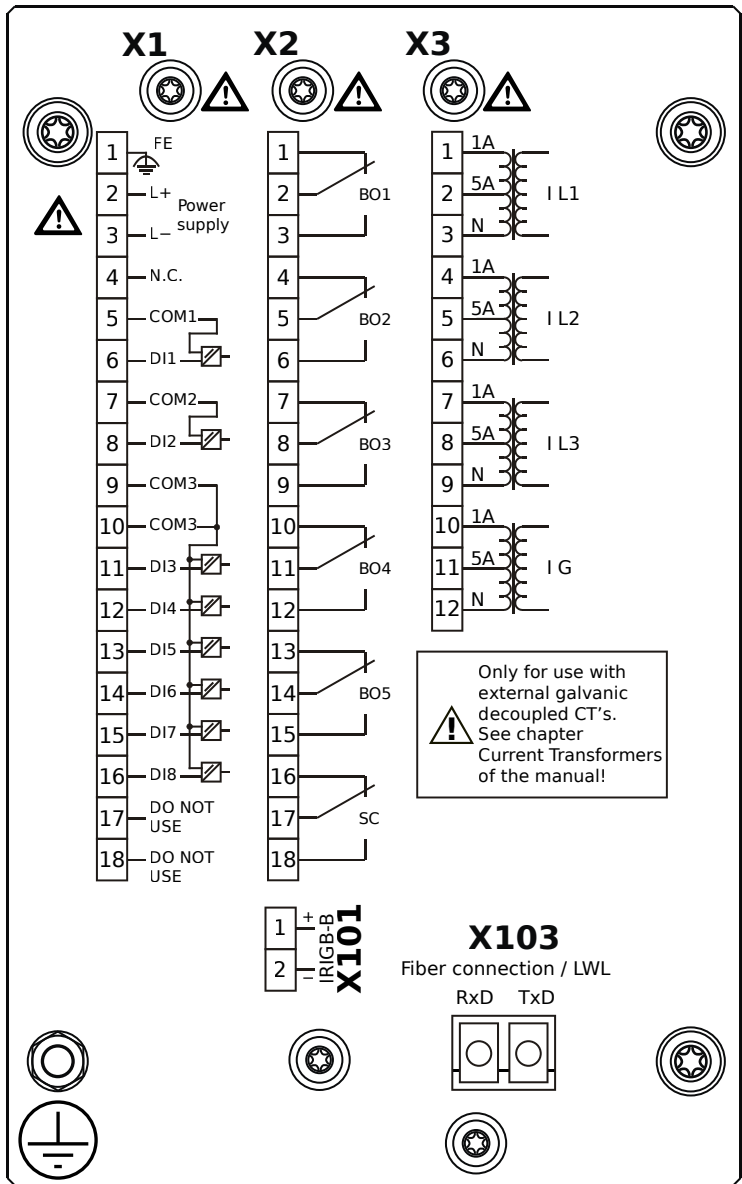


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

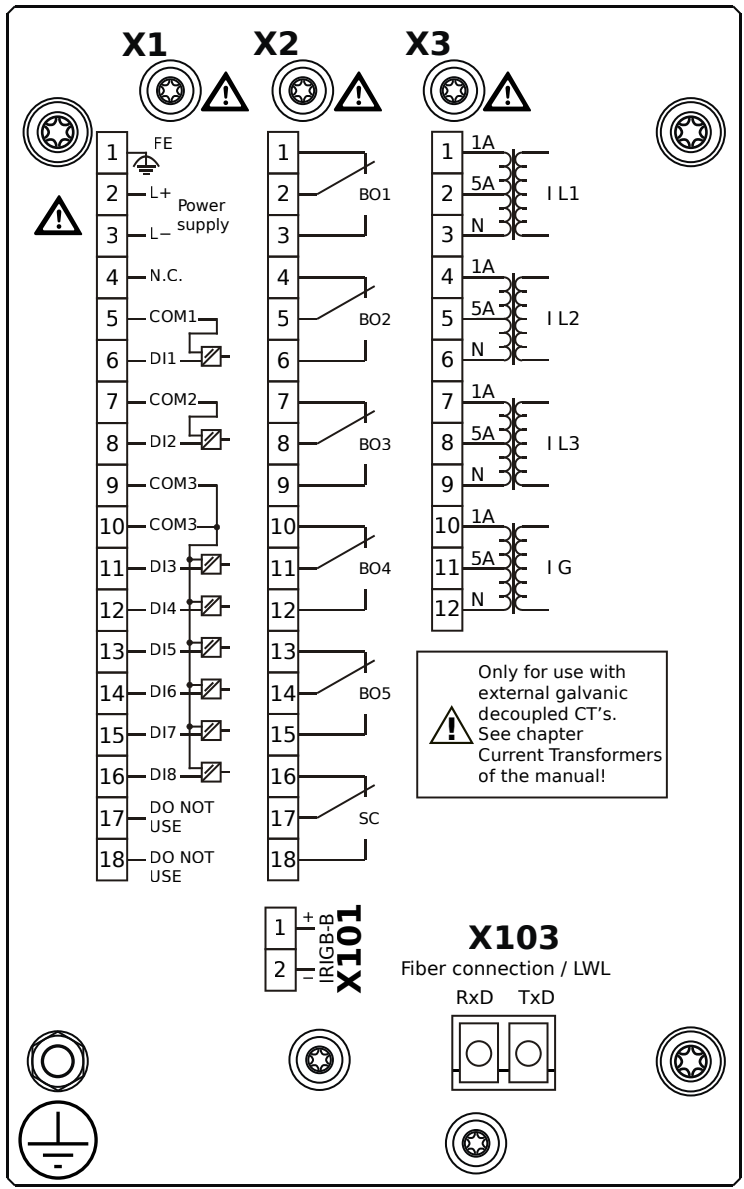
# MRI4-2A0BLA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A0BLB

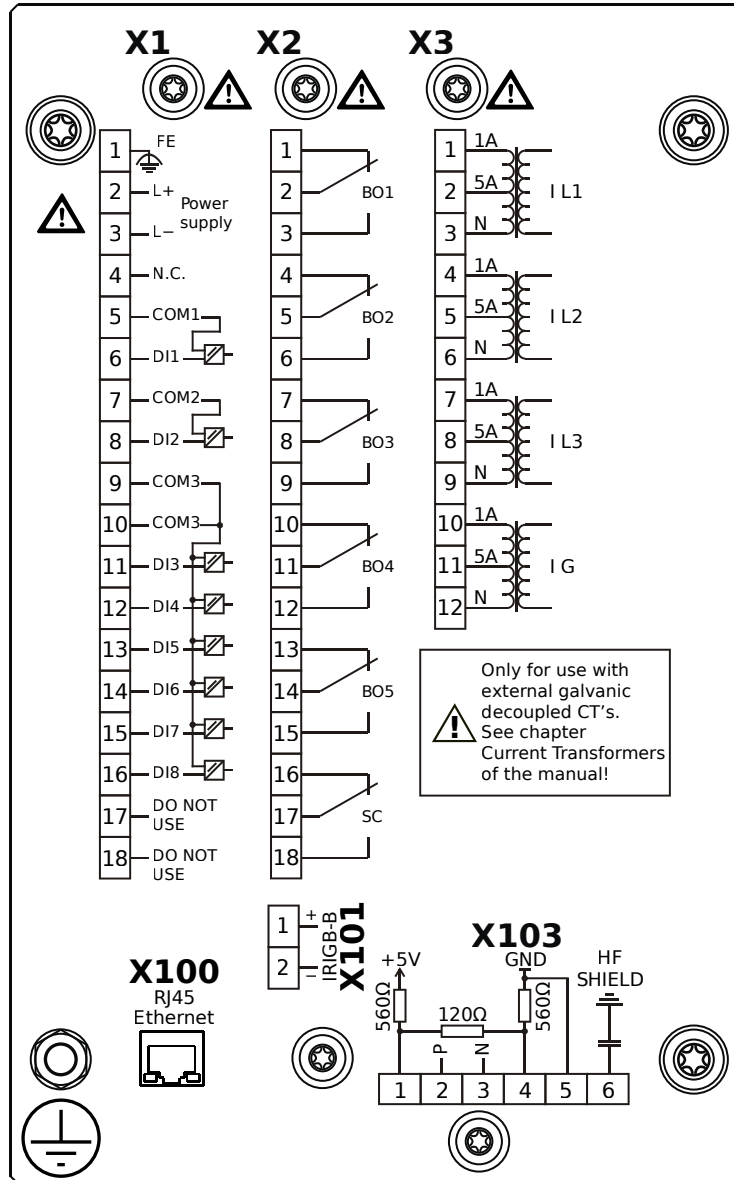


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A0BTA

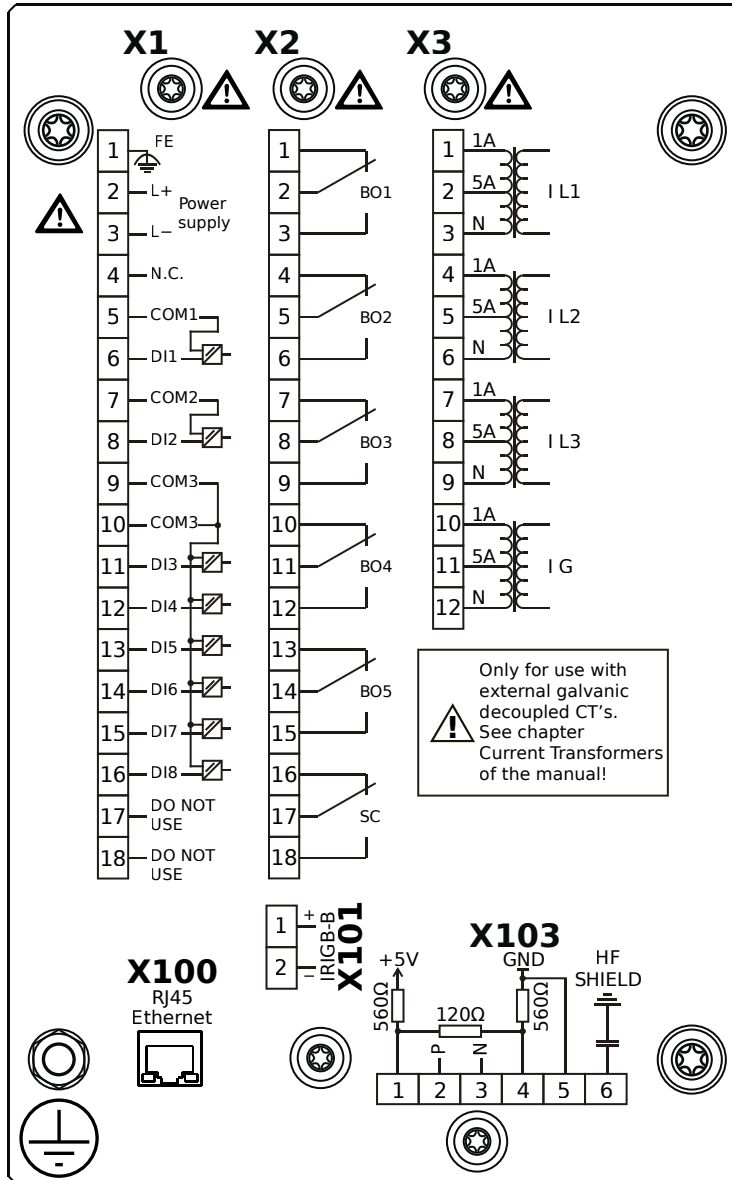


## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals



# MRI4-2A0BTB

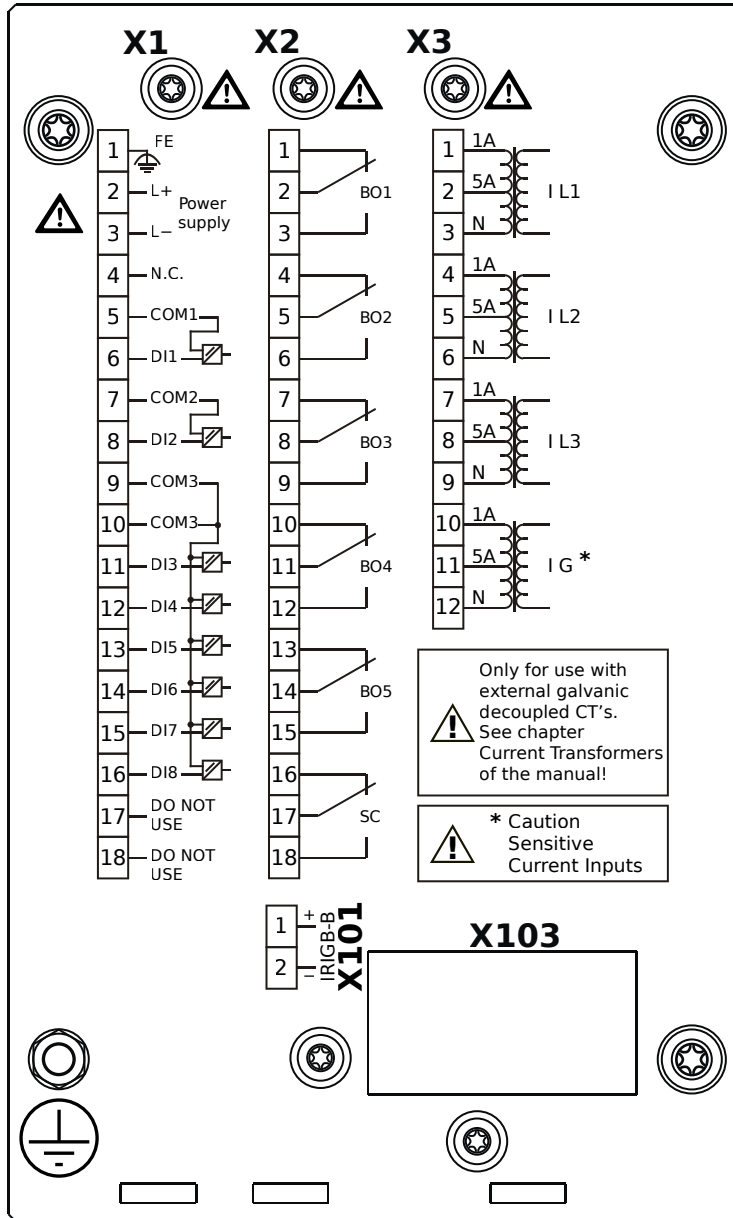


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TI: Standard current measuring card
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

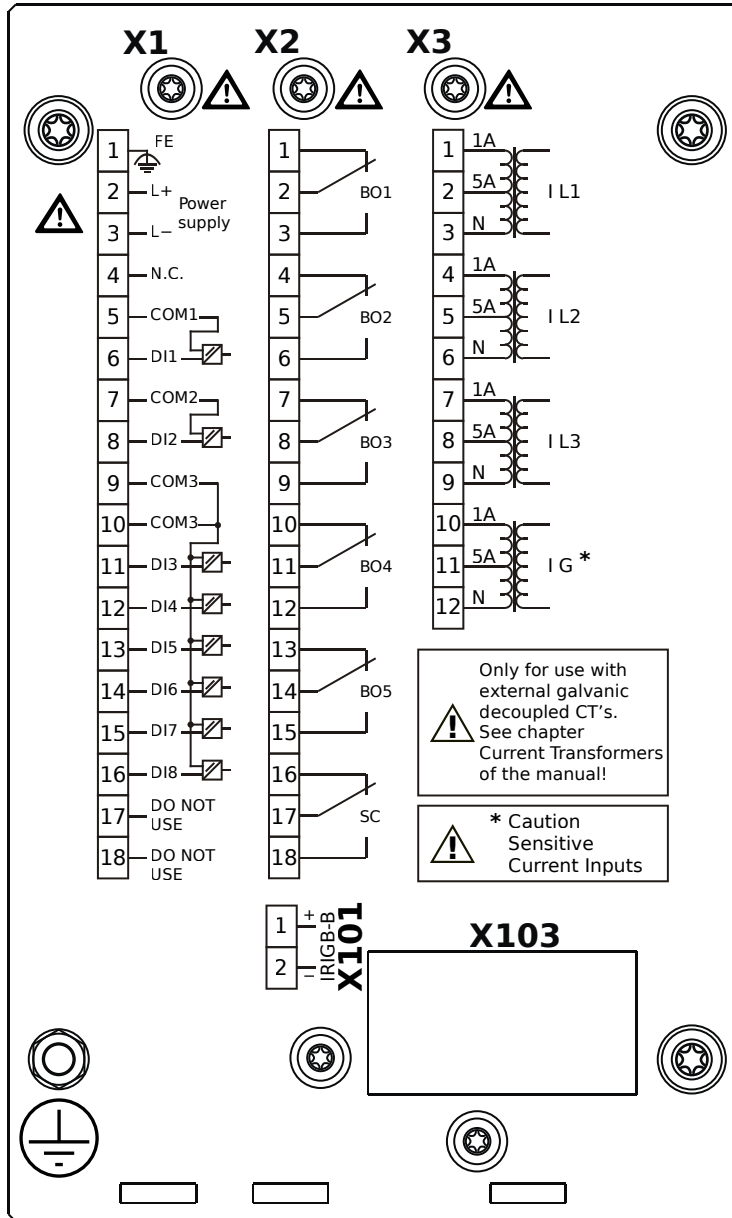
# MRI4-2A1AAA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

# MRI4-2A1AAB

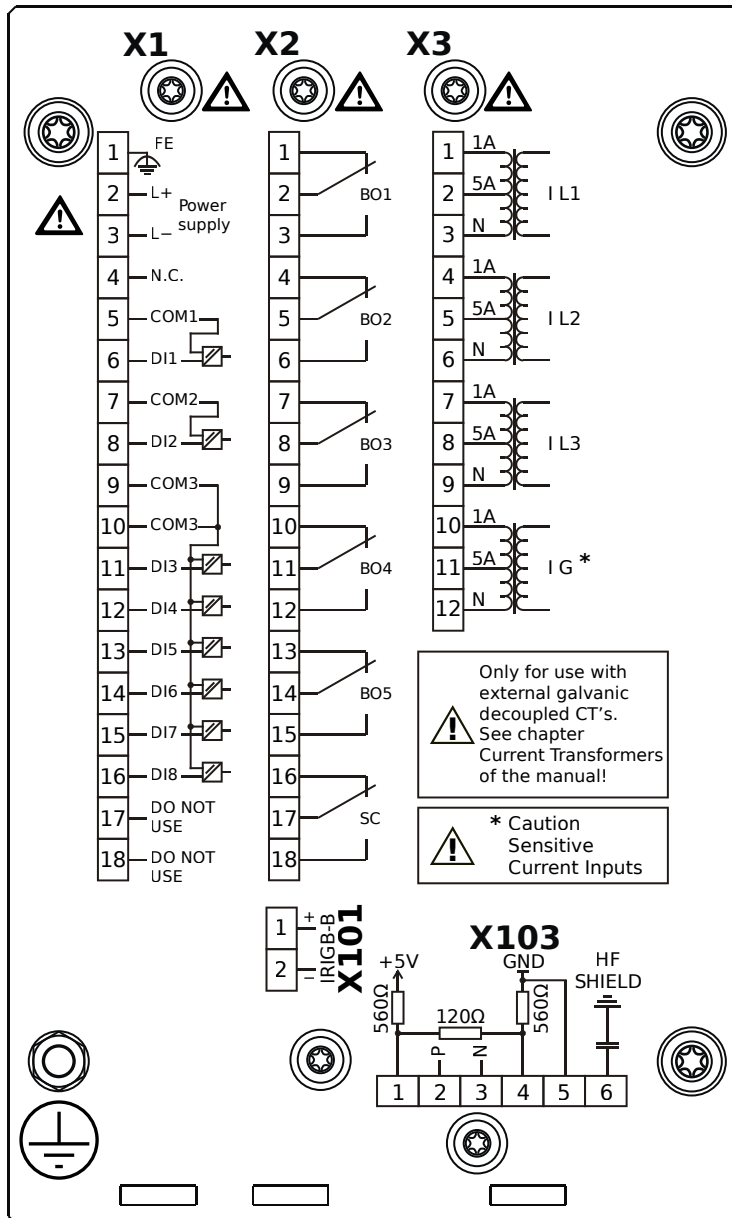


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

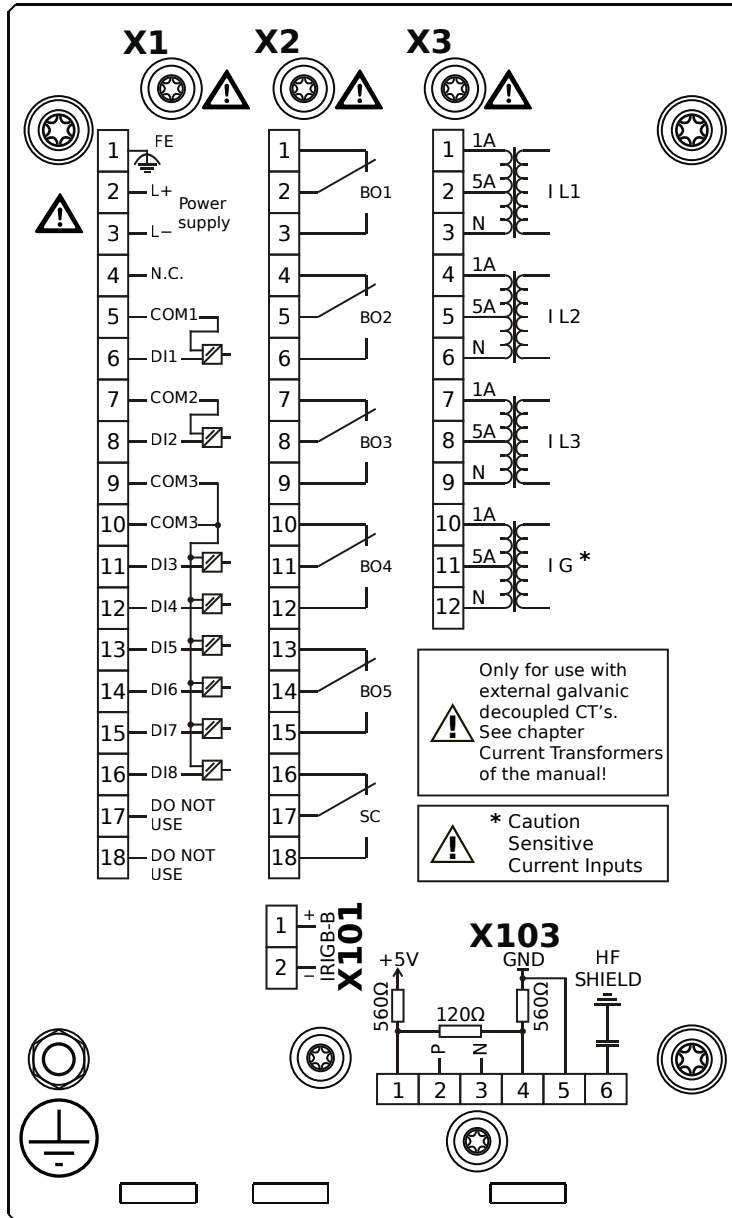
# MRI4-2A1ABA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

# MRI4-2A1ABB

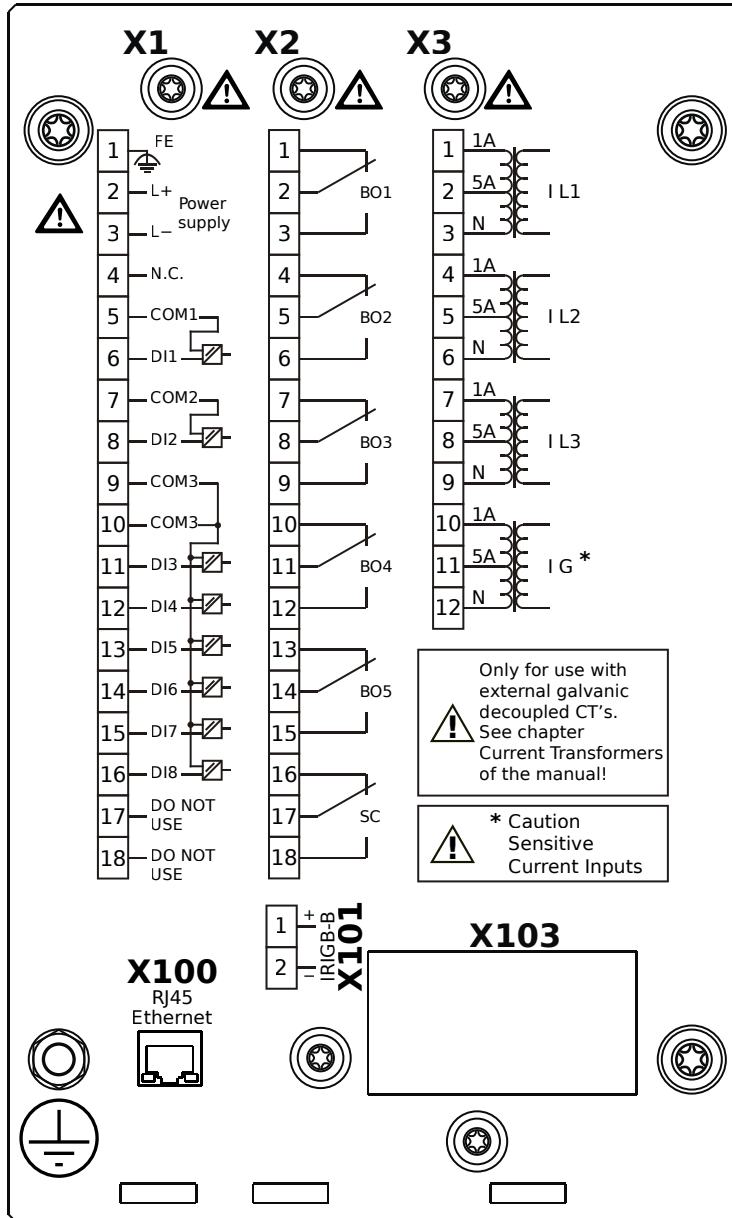


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

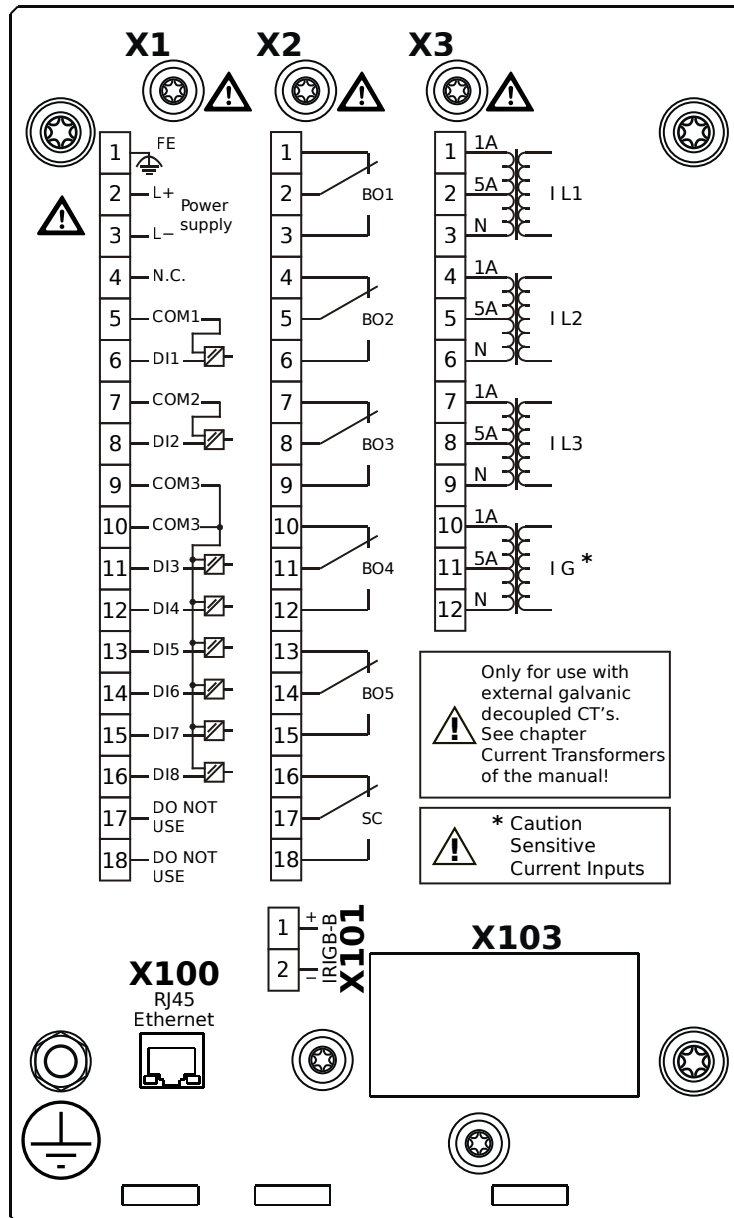
# MRI4-2A1ACA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

# MRI4-2A1ACB

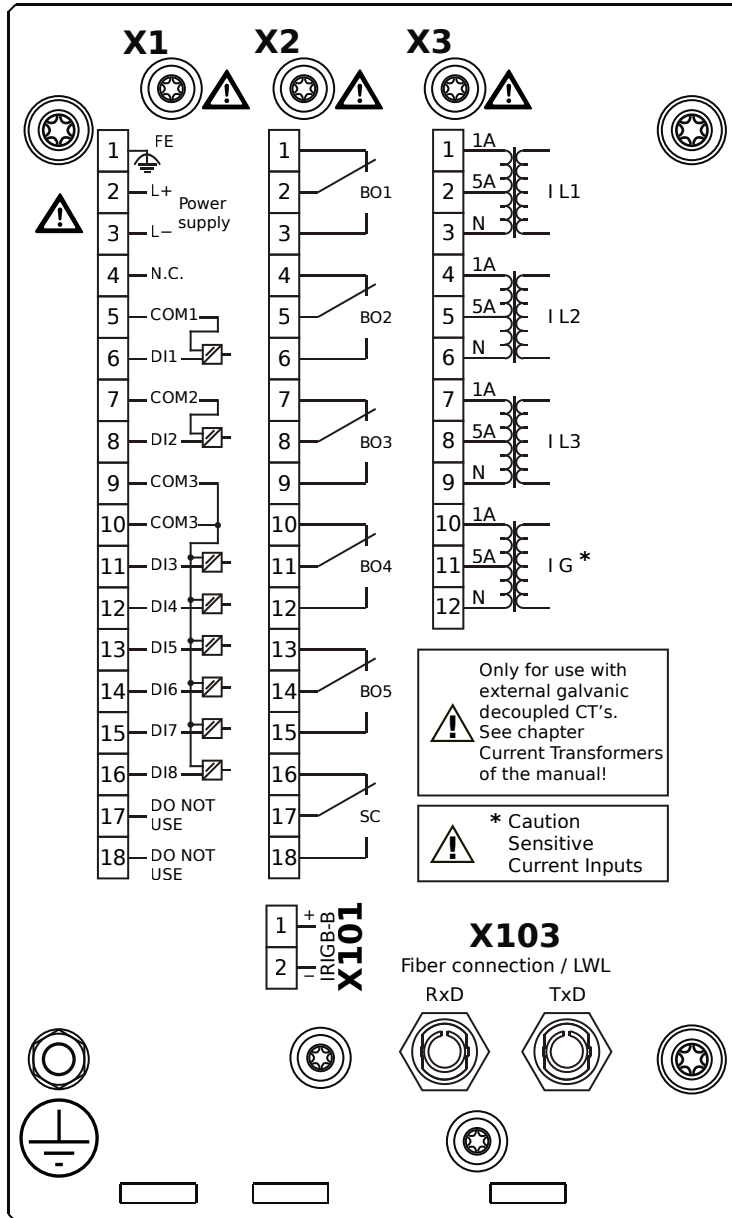


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

# MRI4-2A1ADA

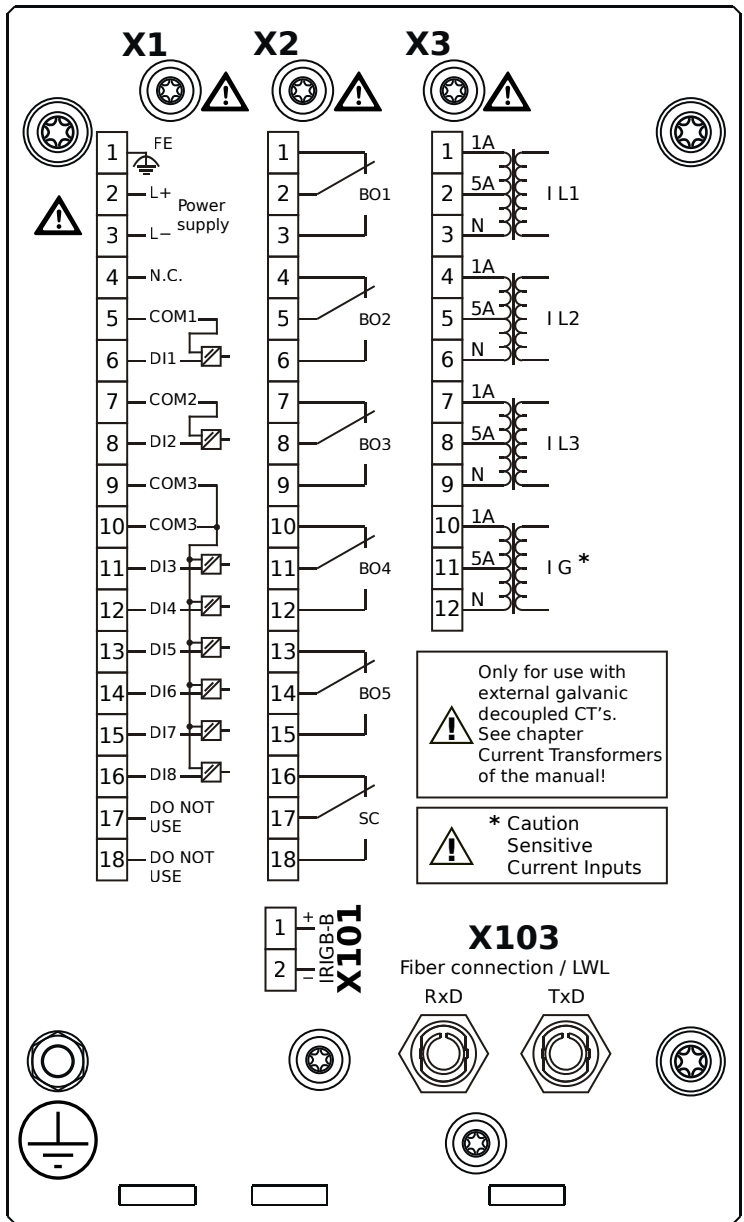


## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector



# MRI4-2A1ADB

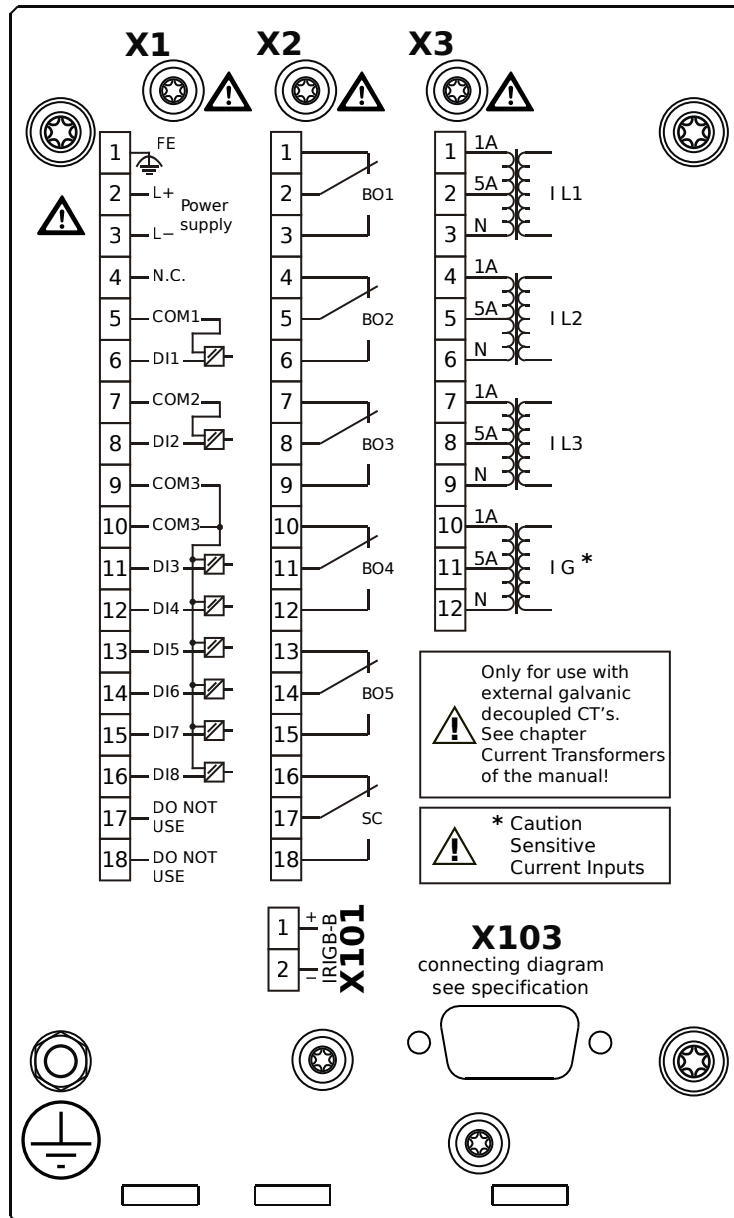


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

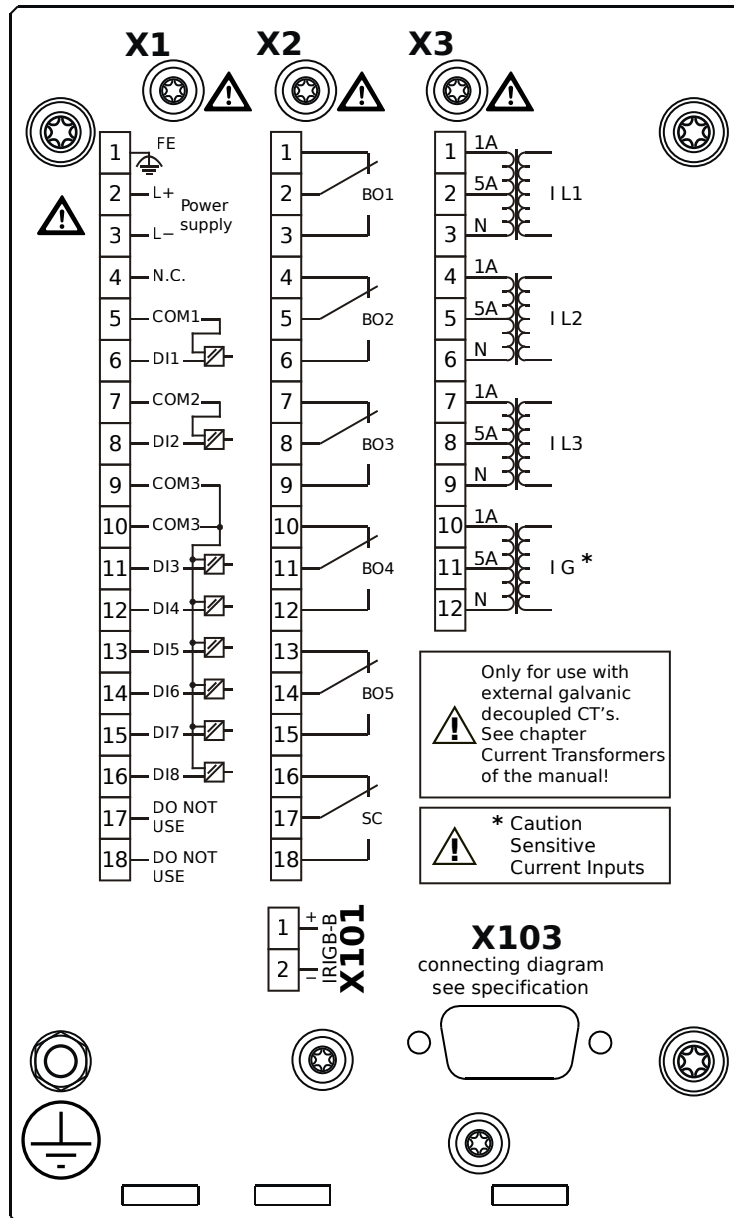
# MRI4-2A1AEA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, RS485, D-SUB

# MRI4-2A1AEB

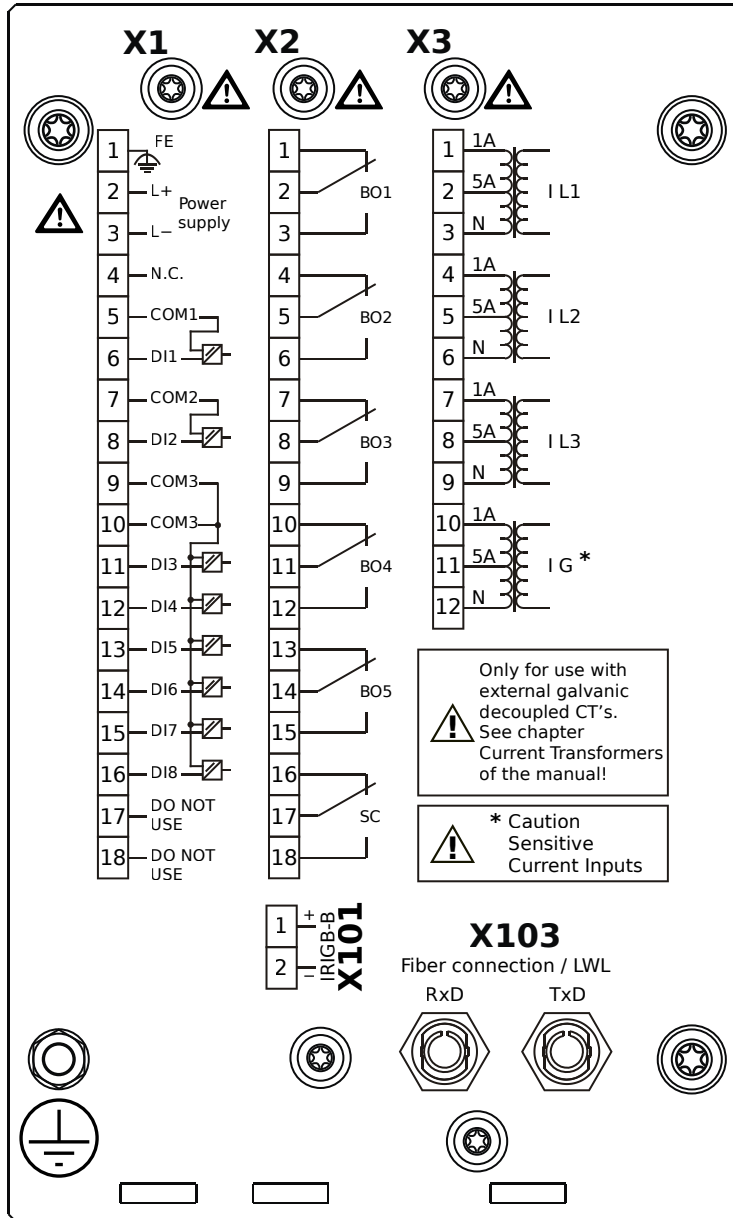


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, RS485, D-SUB

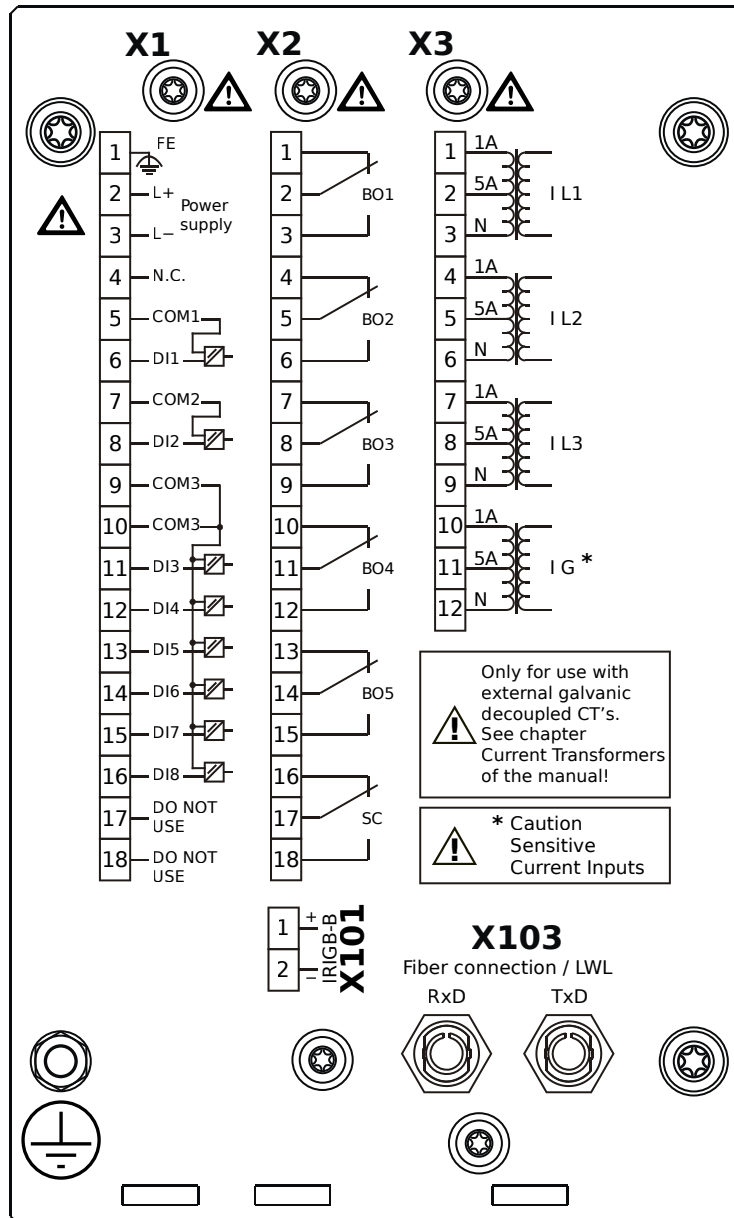
# MRI4-2A1AFA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

# MRI4-2A1AFB

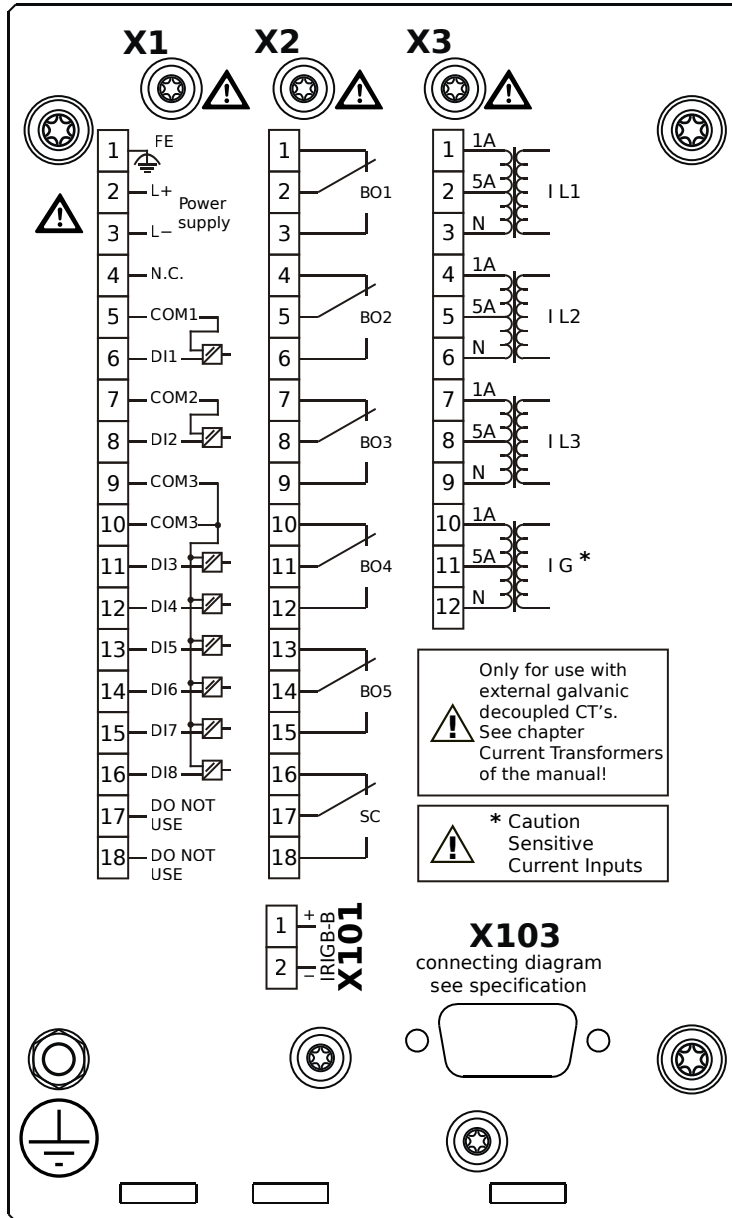


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

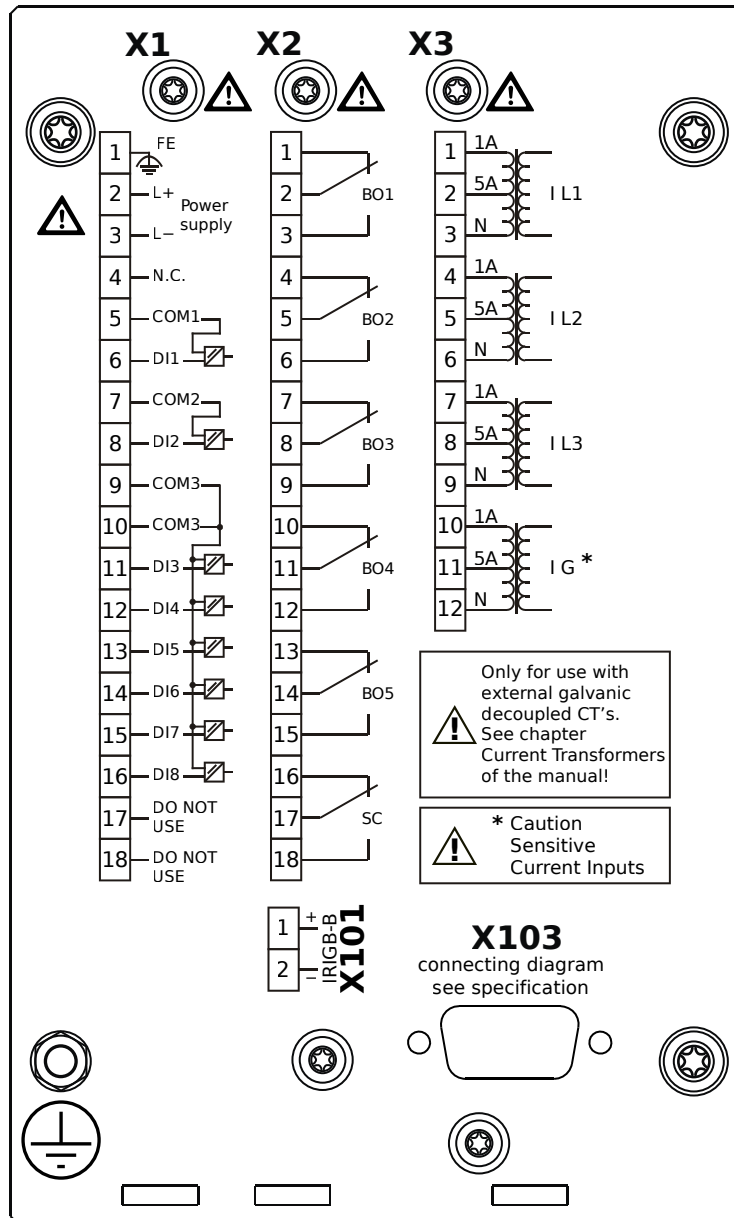
# MRI4-2A1AGA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A1AGB

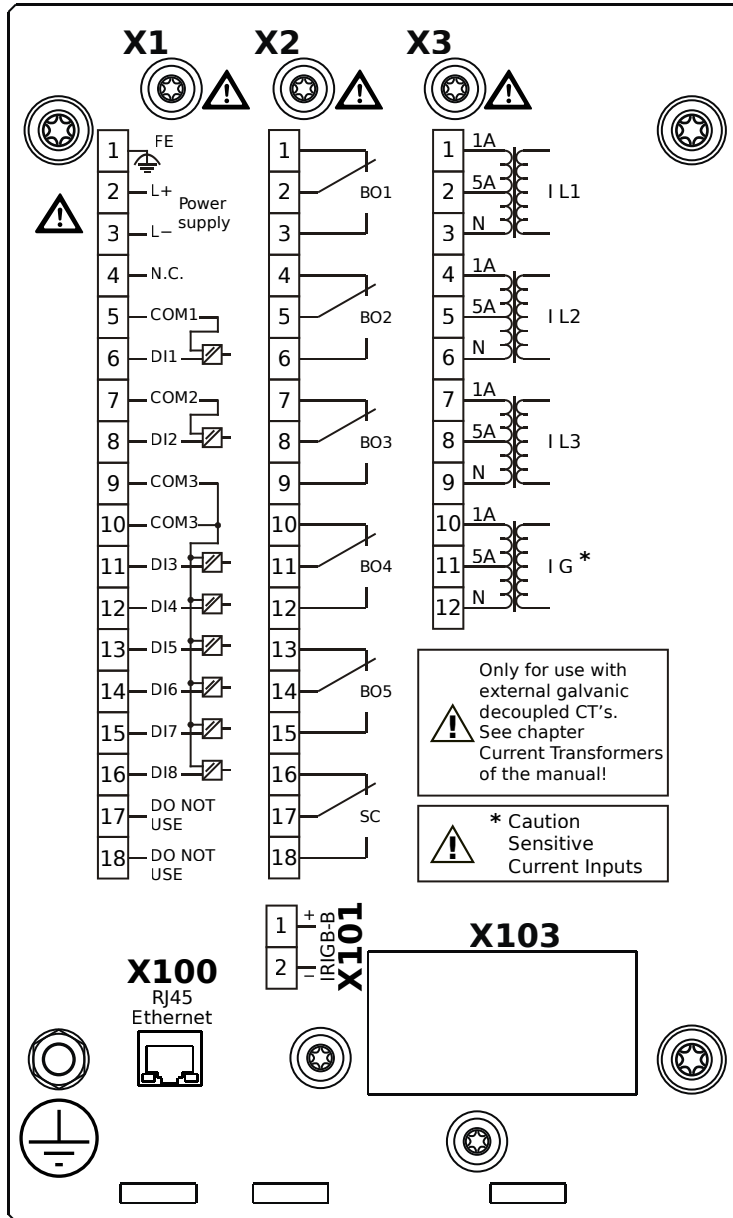


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A1AHA

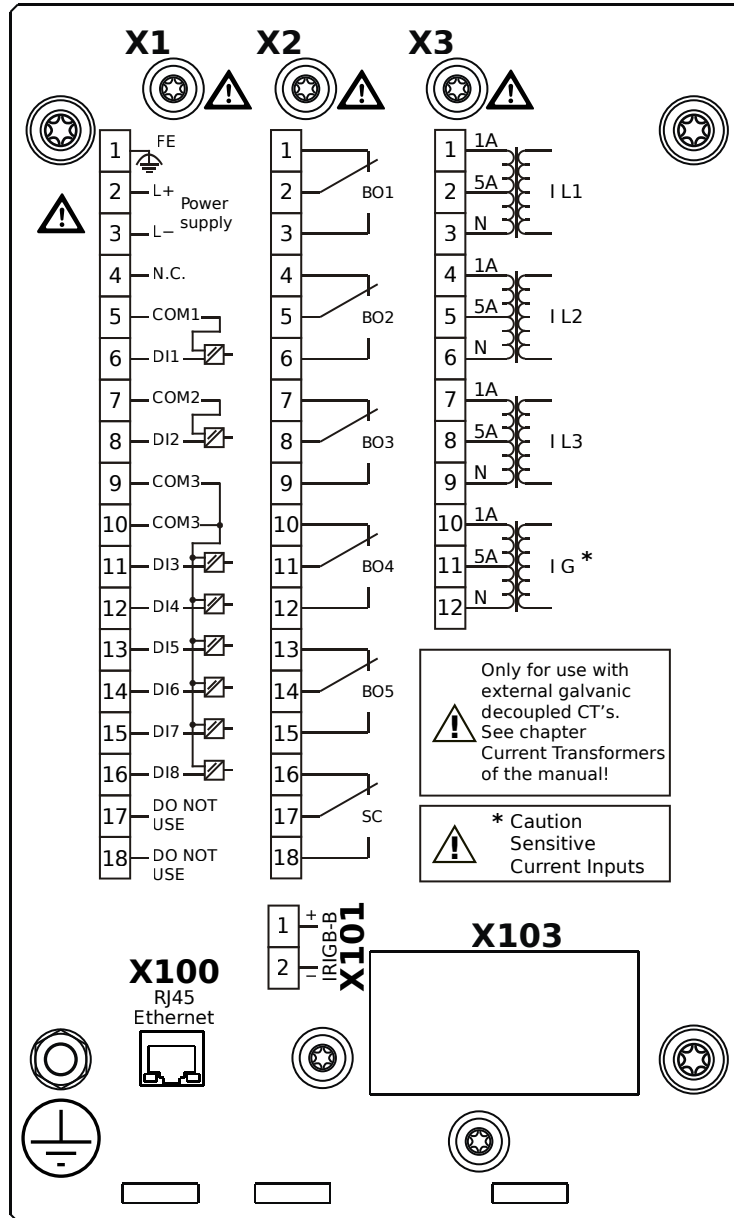


## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X



# MRI4-2A1AHB

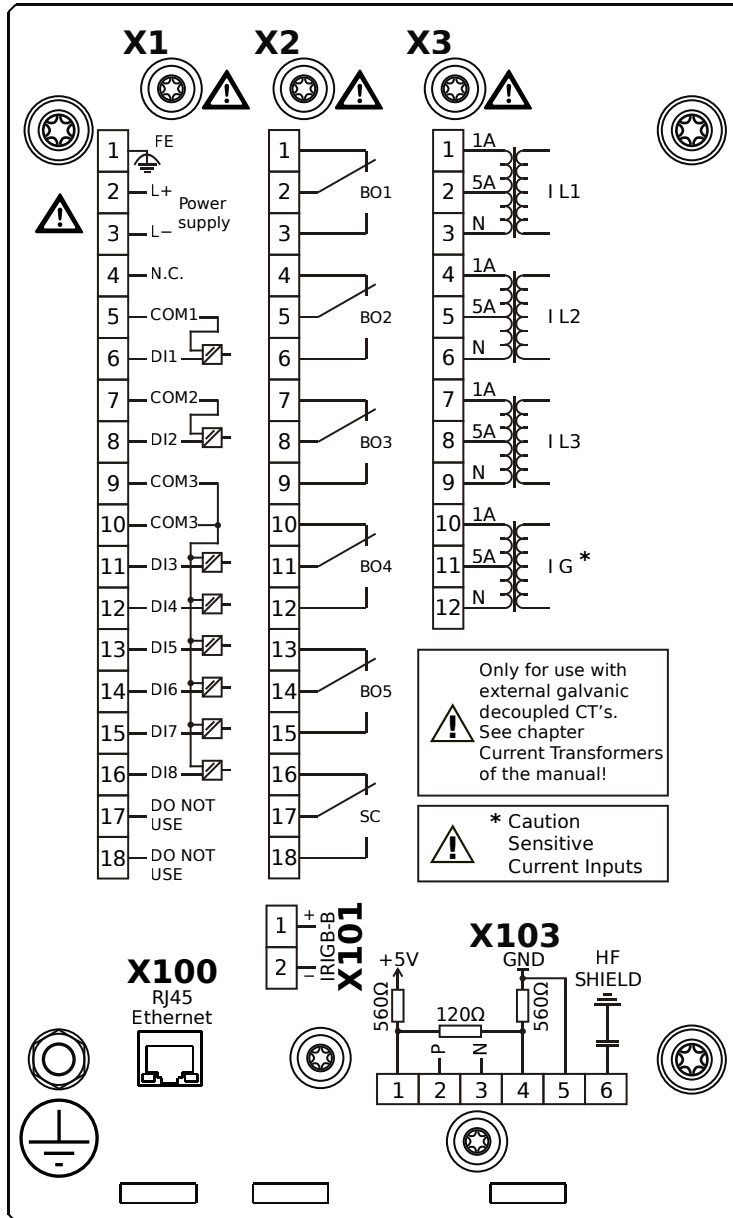


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

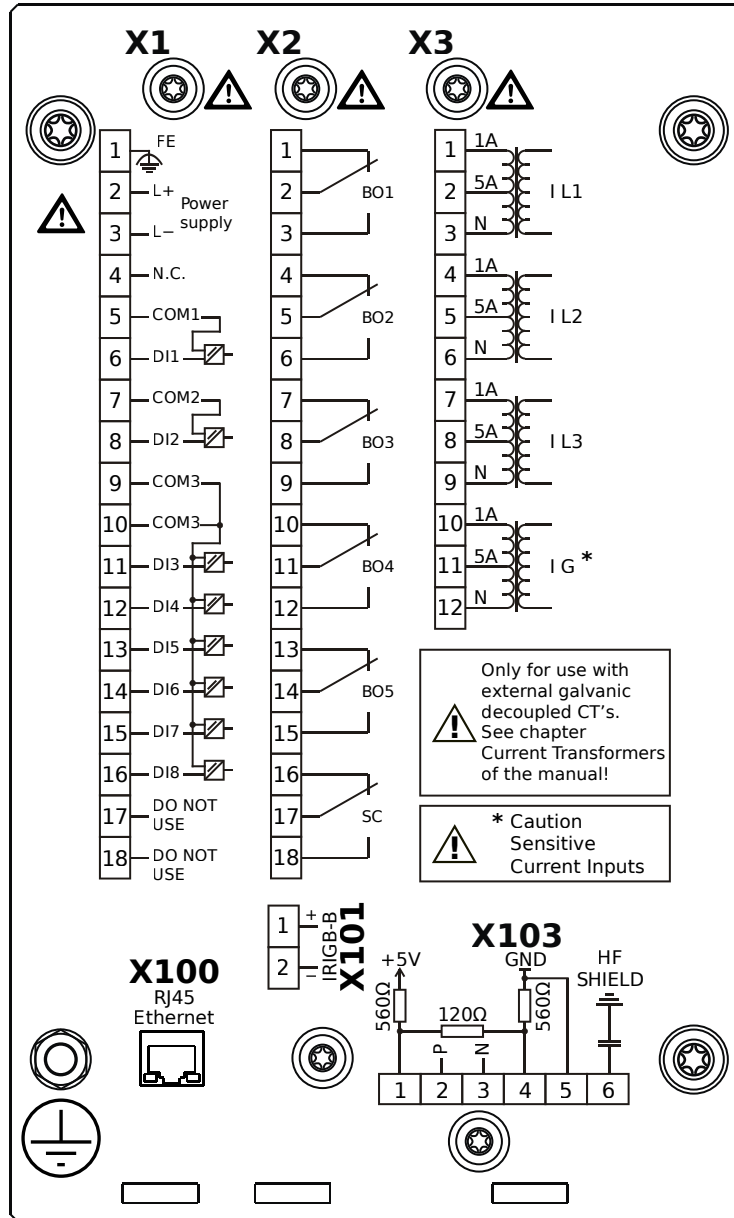
# MRI4-2A1AIA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

# MRI4-2A1AIB

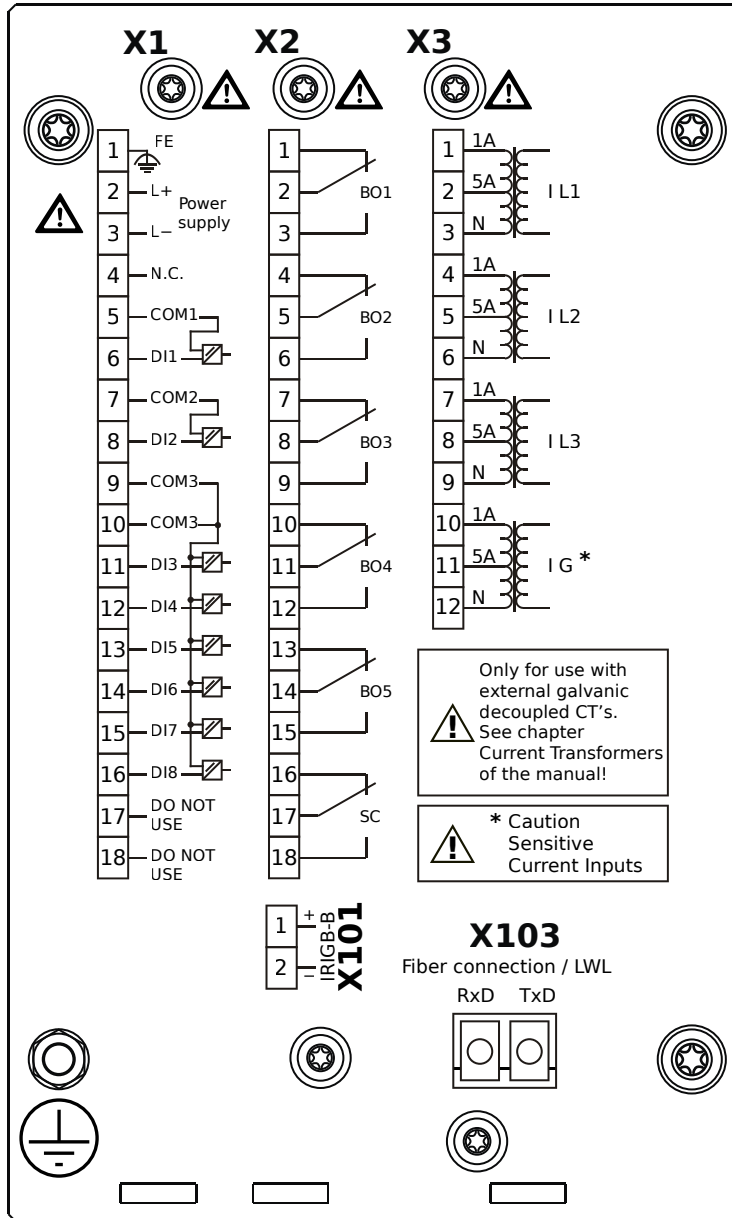


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

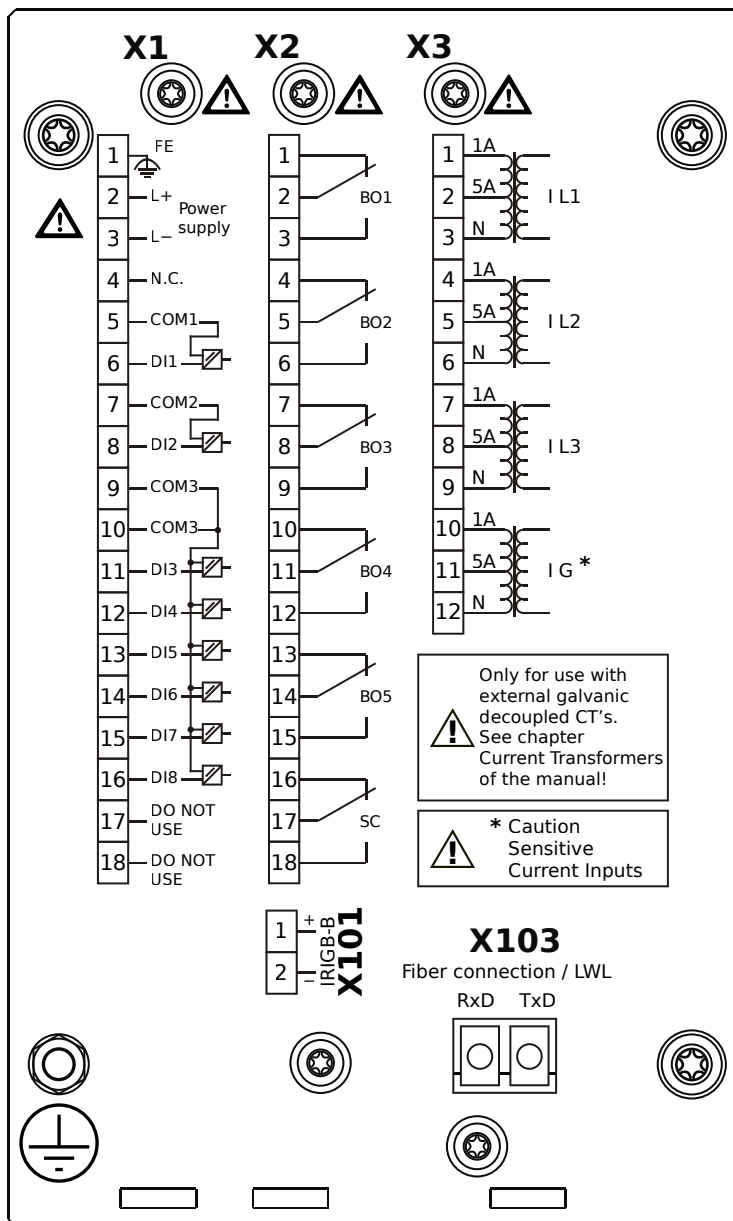
# MRI4-2A1AKA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1AKB

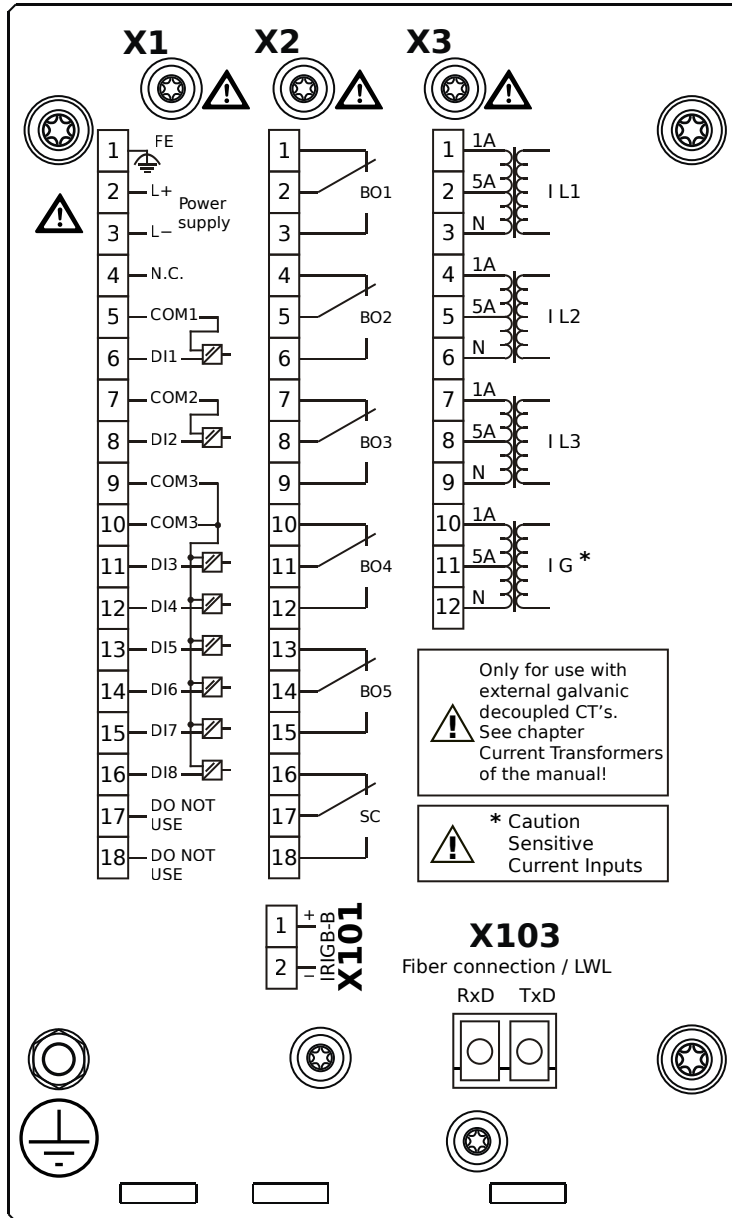


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

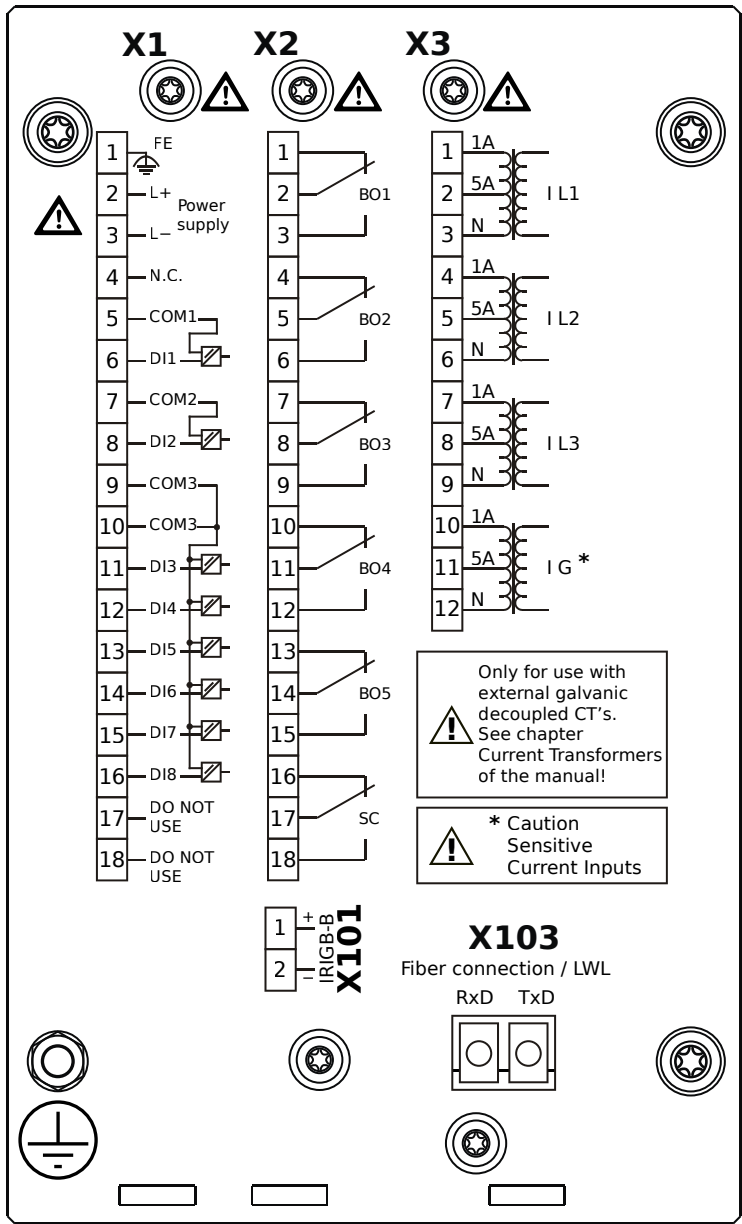
# MRI4-2A1ALA



## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1ALB

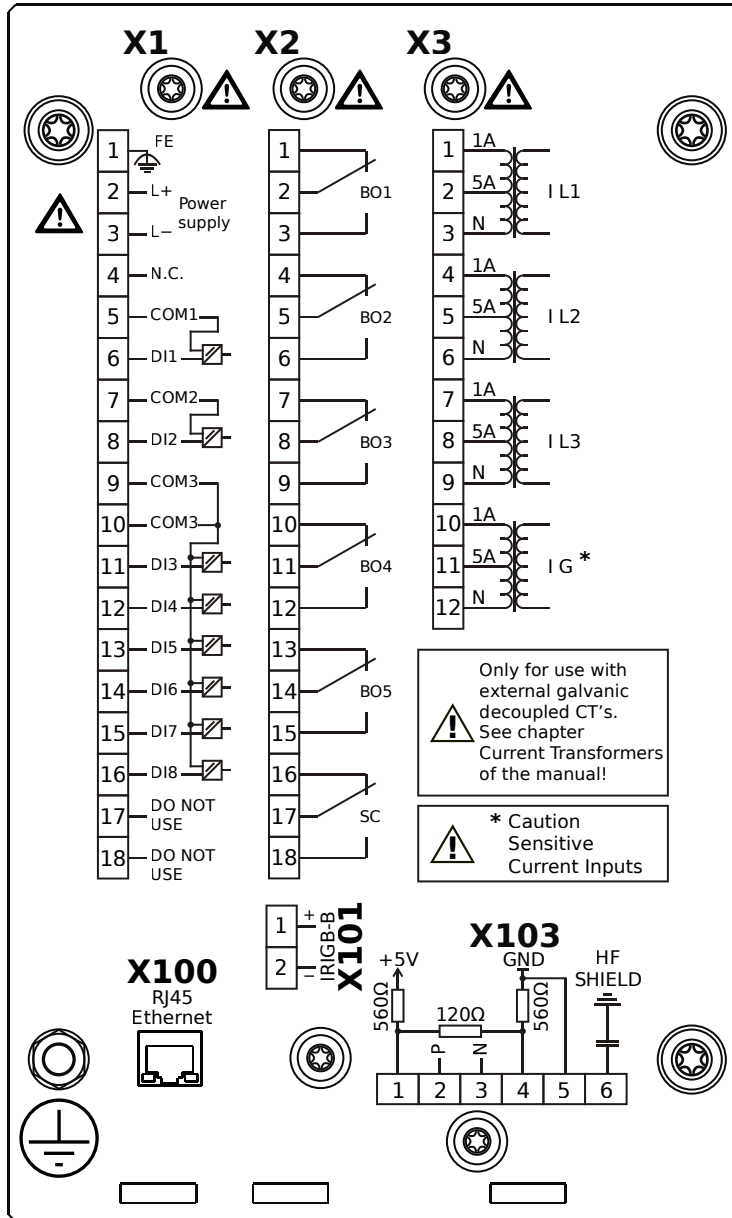


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1ATA

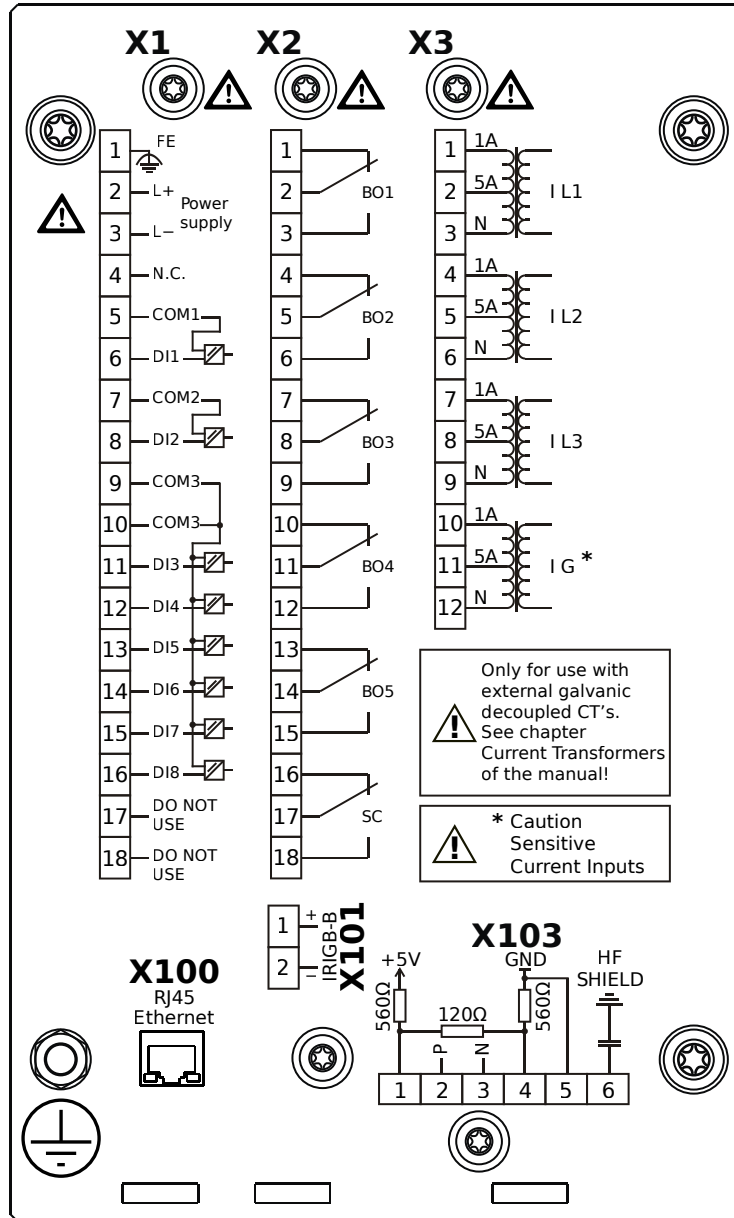


## Housing B1, small display, door mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals



# MRI4-2A1ATB

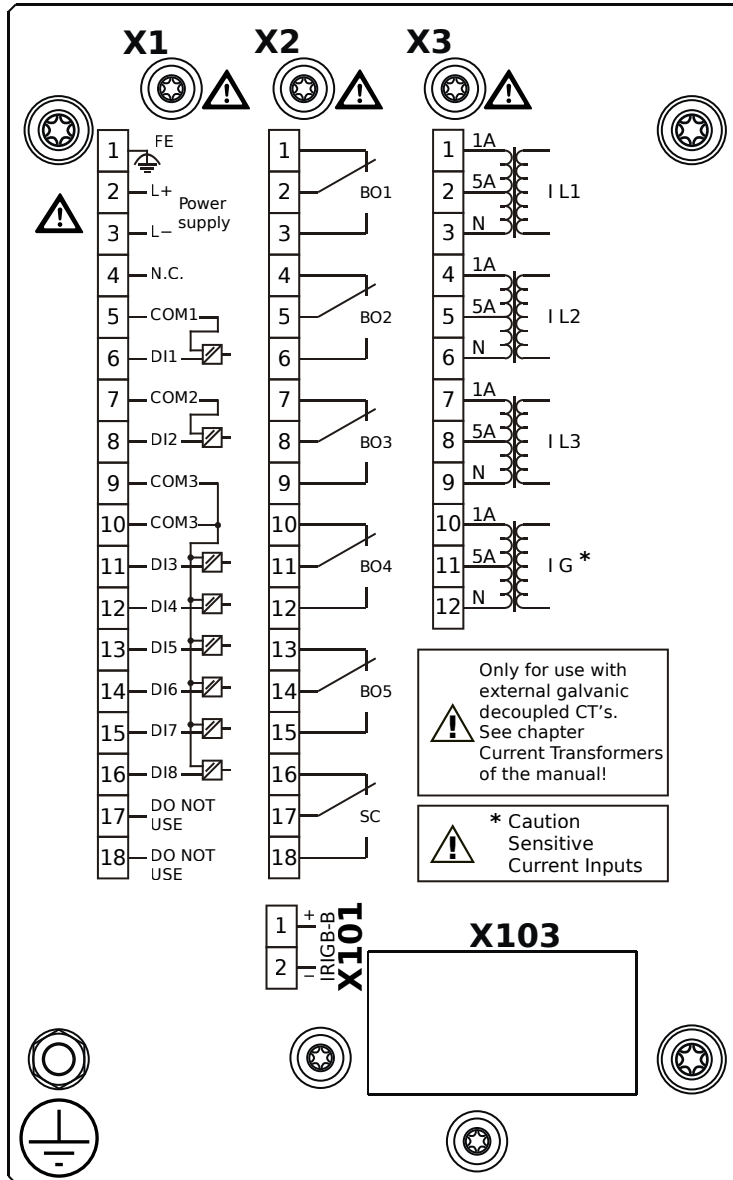


## Housing B1, small display, door mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

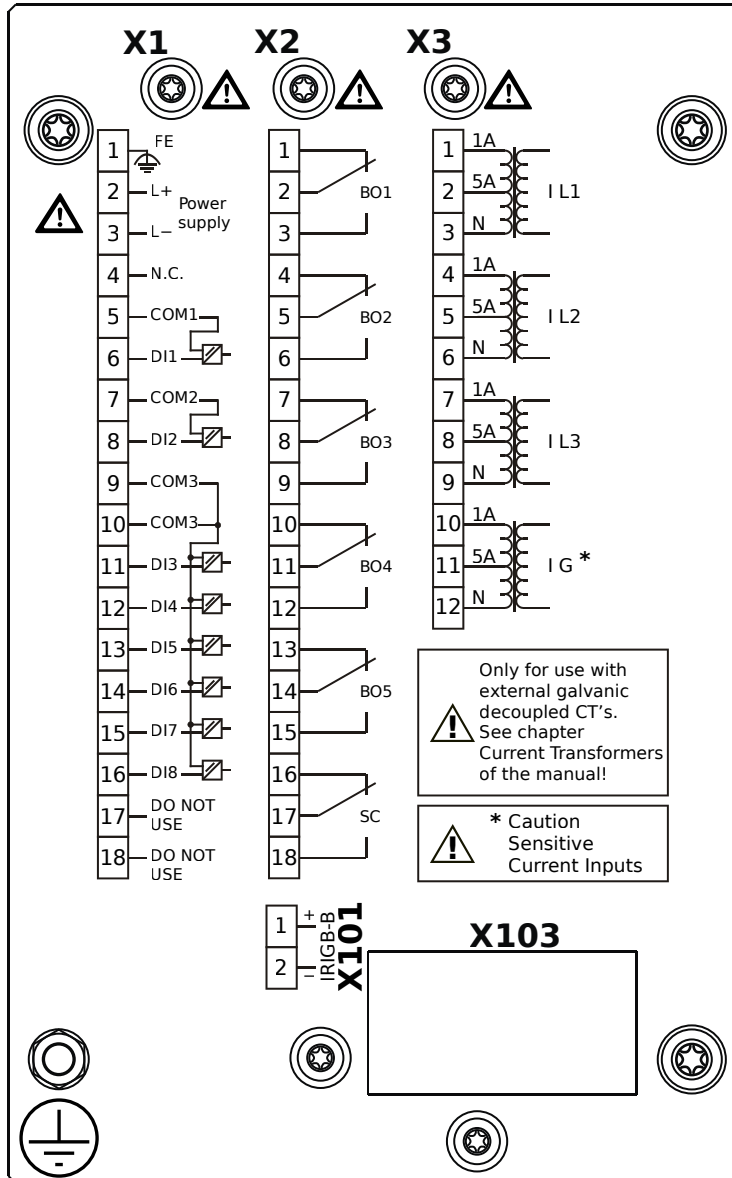
# MRI4-2A1BAA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

# MRI4-2A1BAB

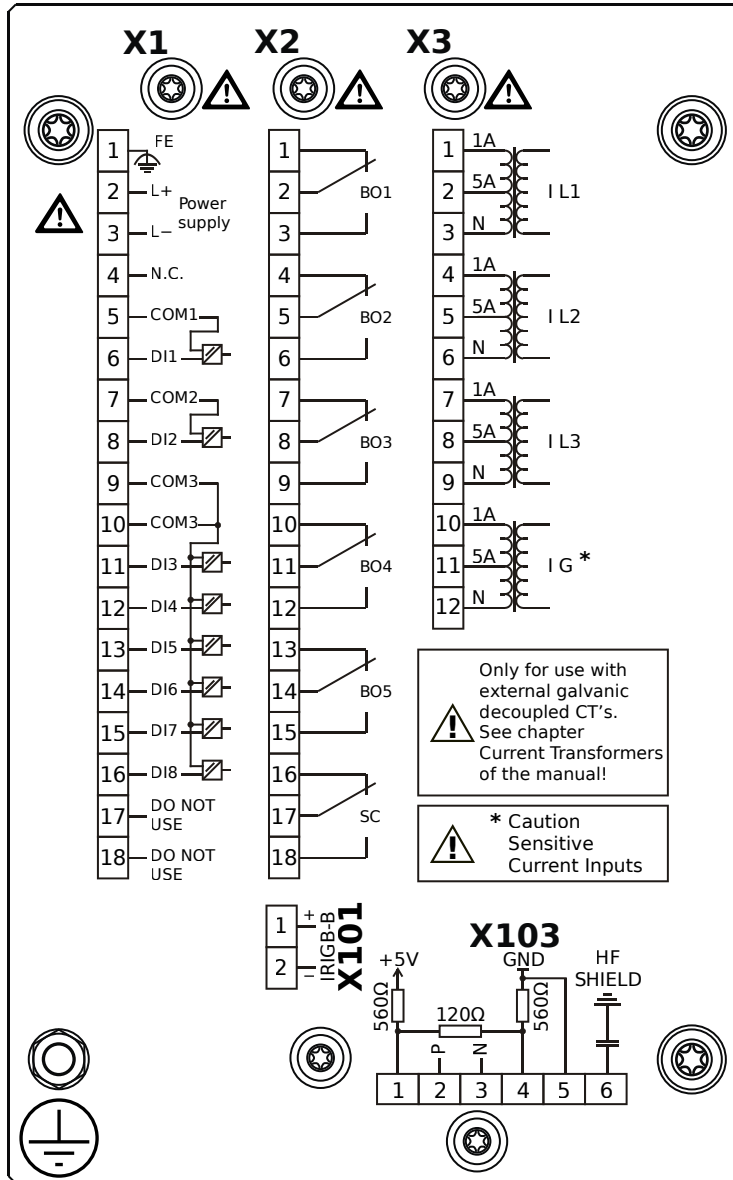


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X

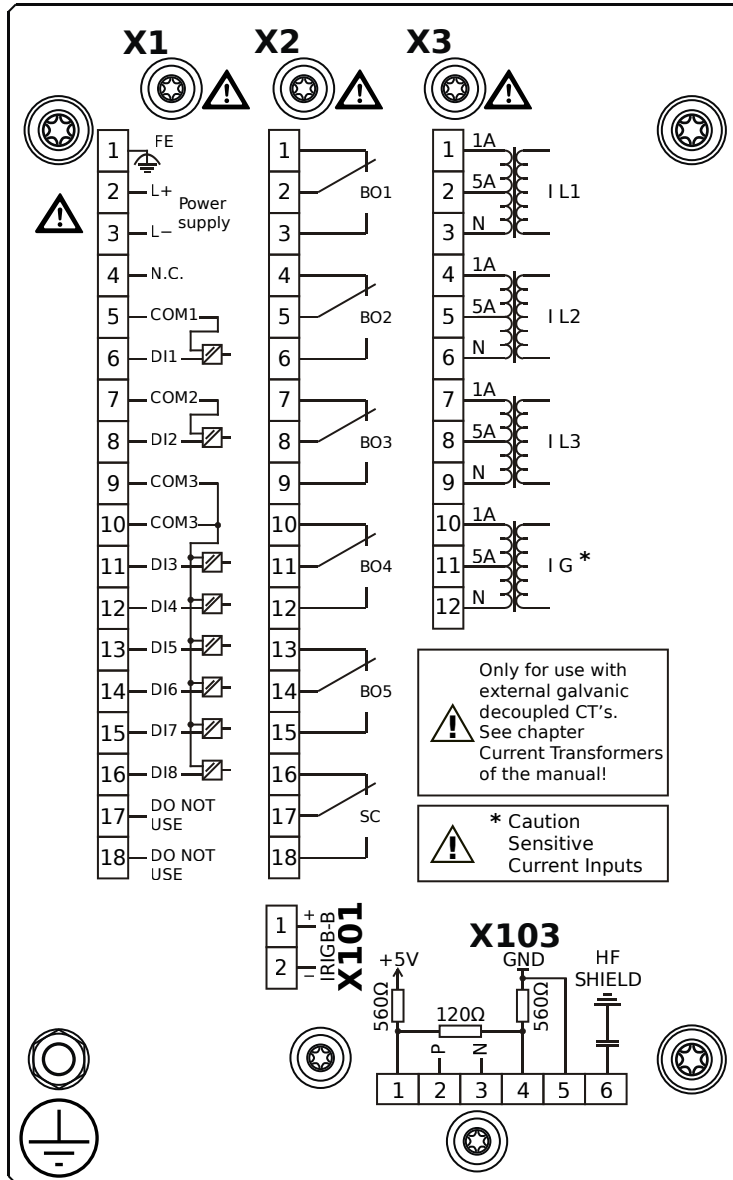
# MRI4-2A1BBA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

# MRI4-2A1BBB

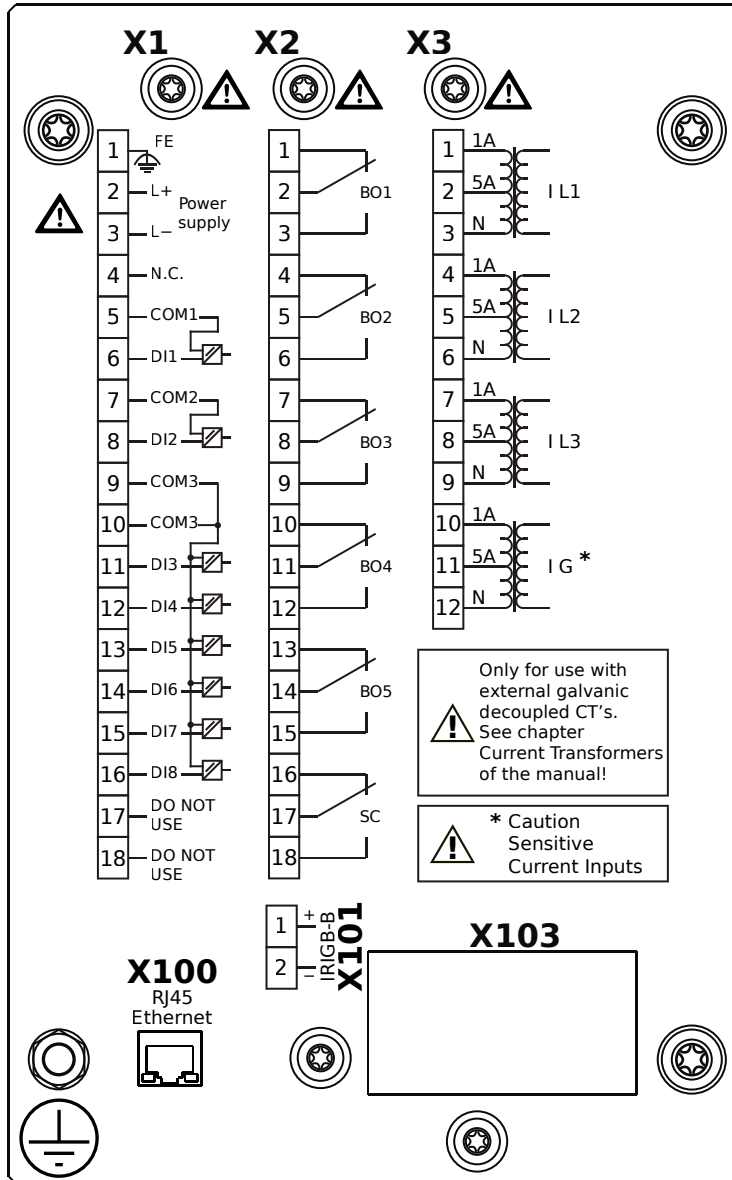


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, Terminals

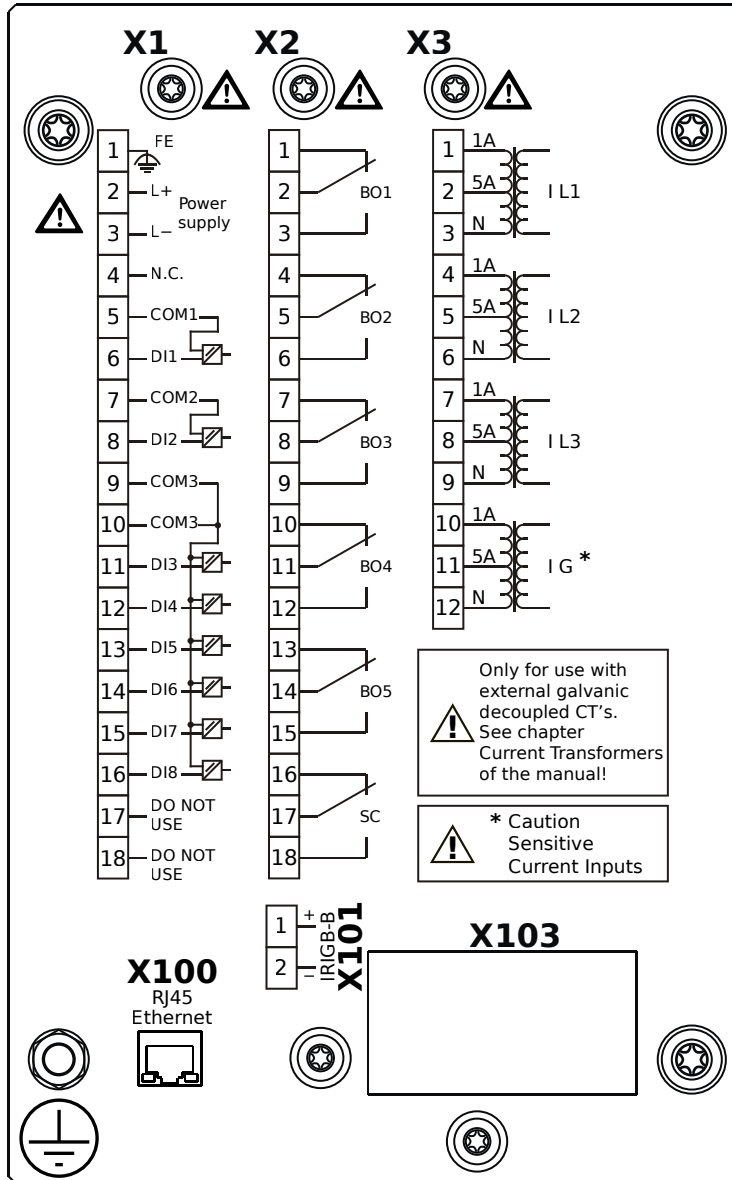
# MRI4-2A1BCA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

# MRI4-2A1BCB

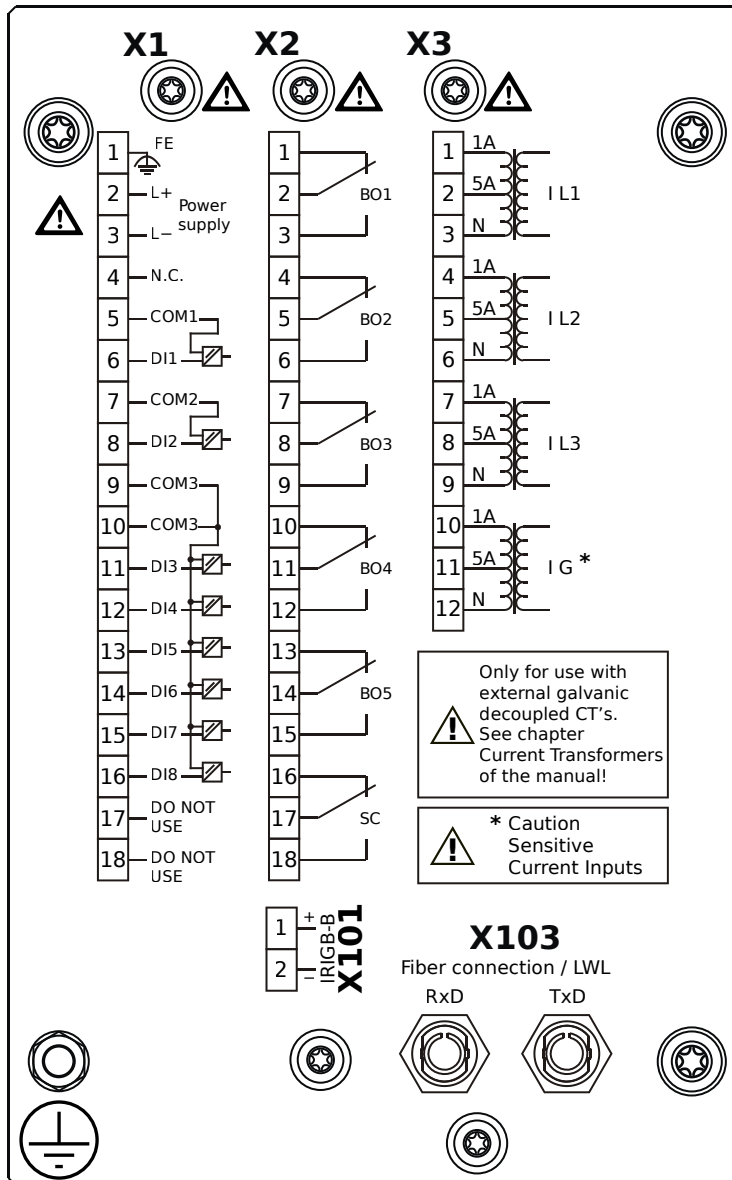


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

# MRI4-2A1BDA

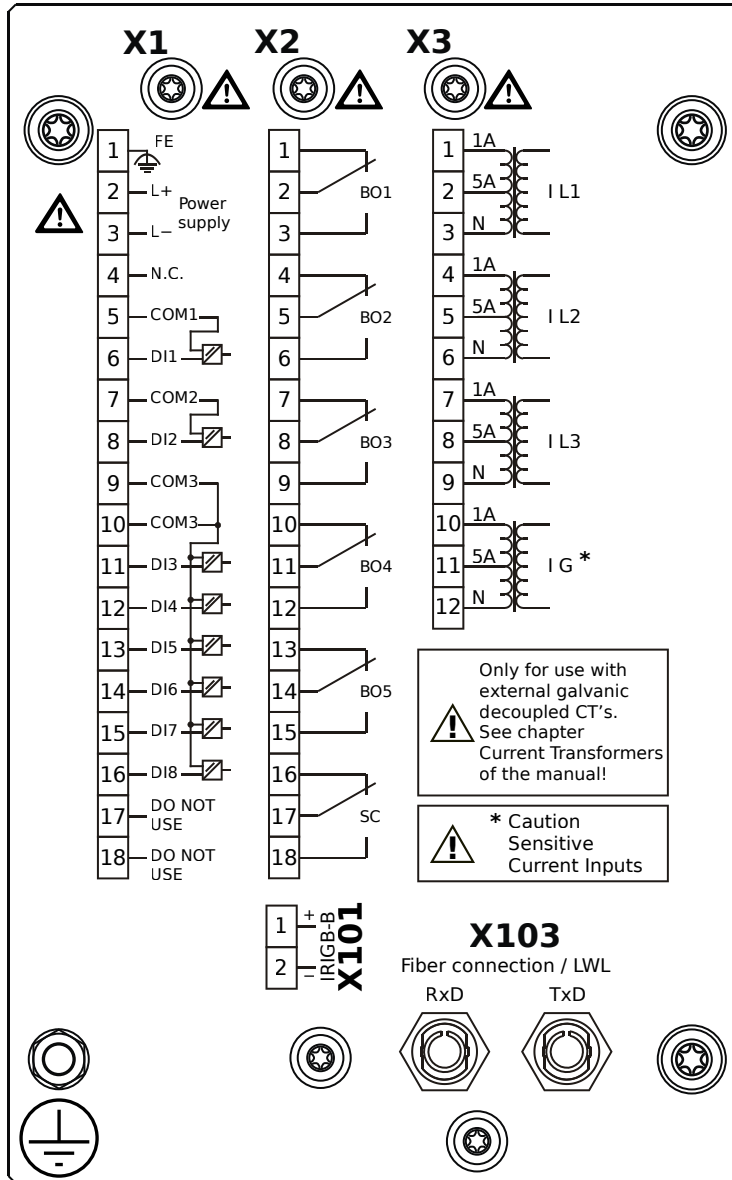


## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector



# MRI4-2A1BDB

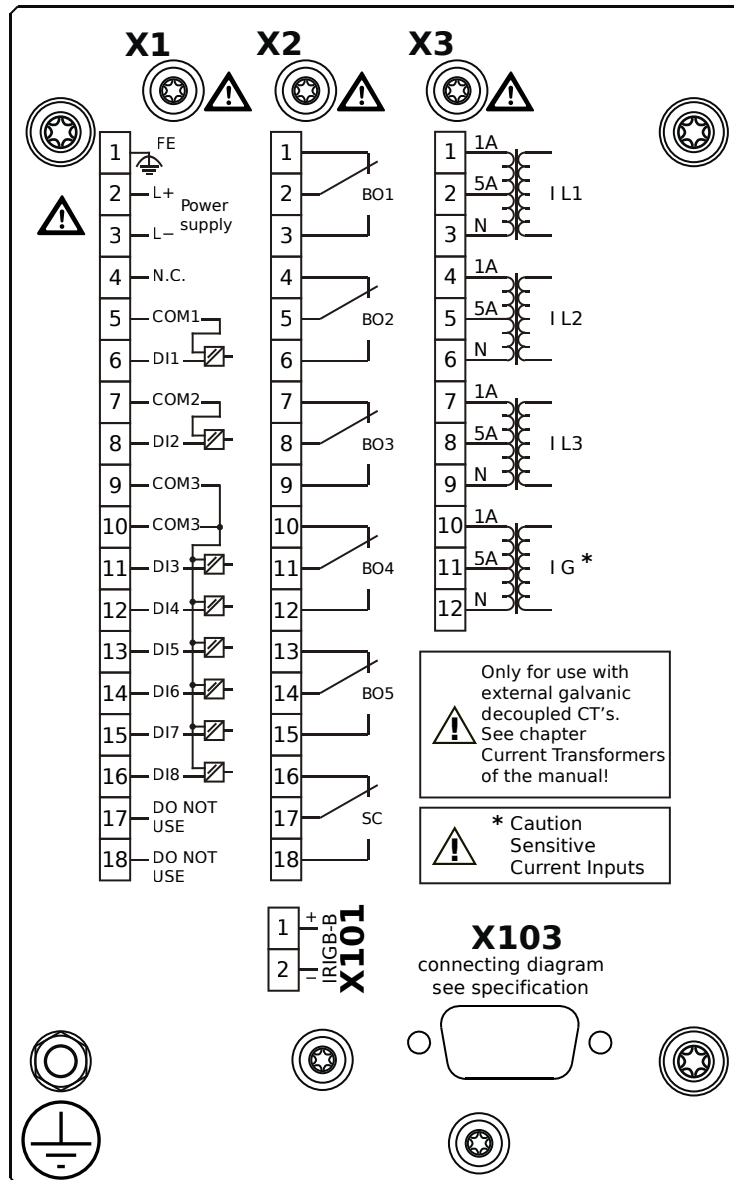


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, Fiber optics interface, ST Connector

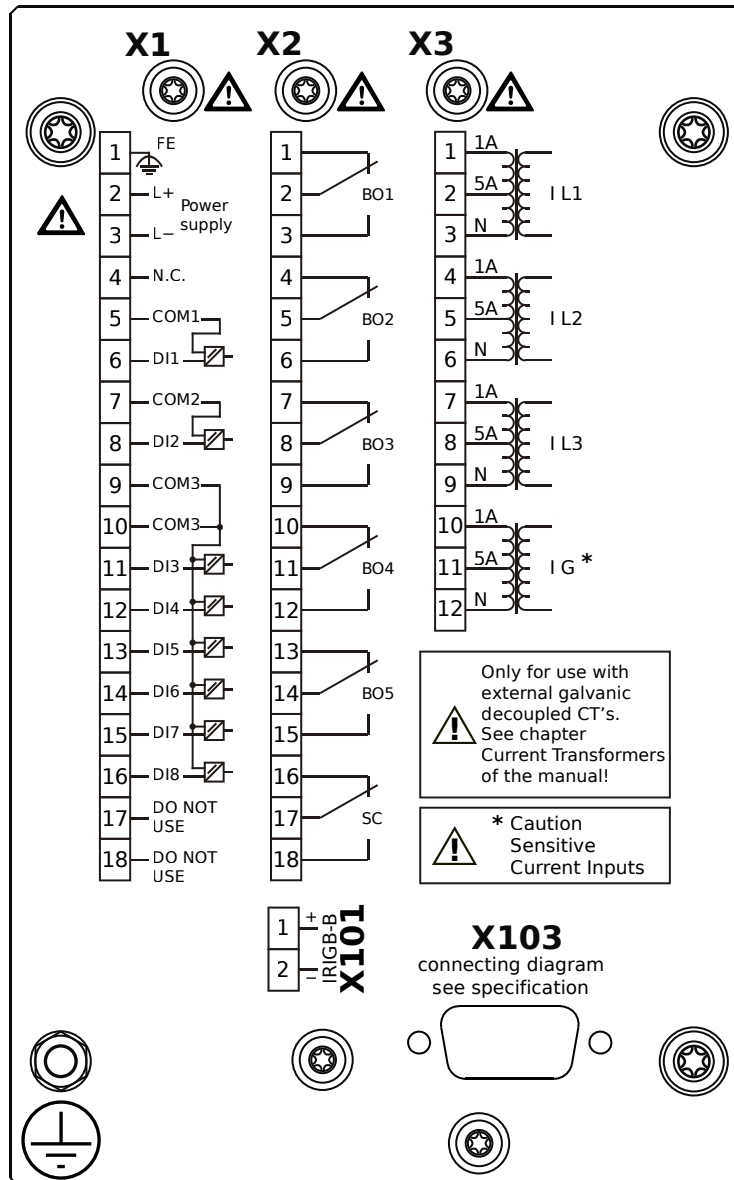
# MRI4-2A1BEA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, RS485, D-SUB

# MRI4-2A1BEB

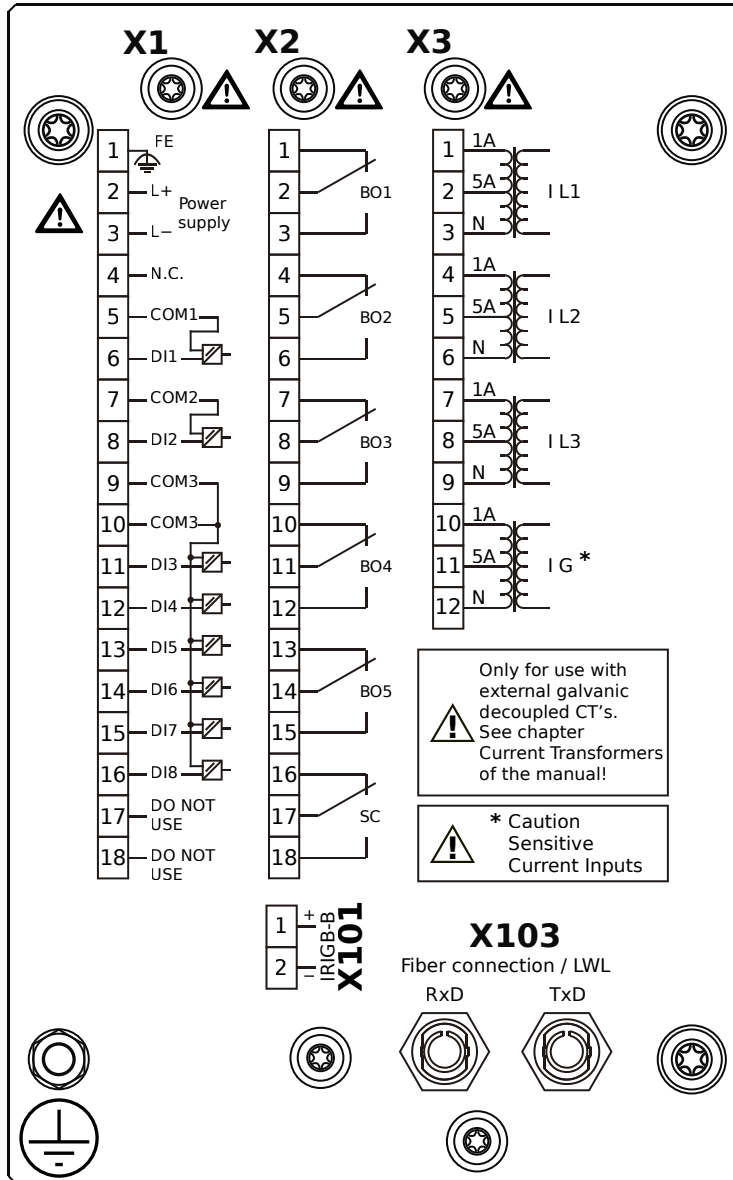


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Profibus-DP, RS485, D-SUB

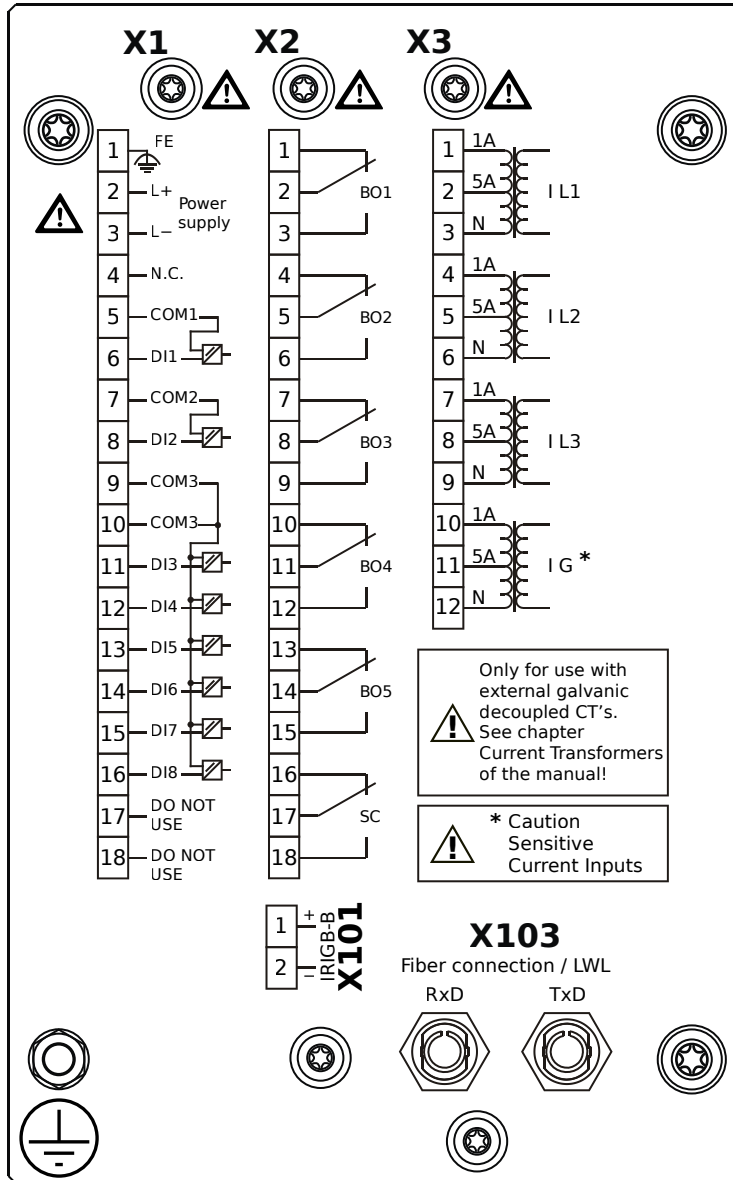
# MRI4-2A1BFA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

# MRI4-2A1BFB



## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

**X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

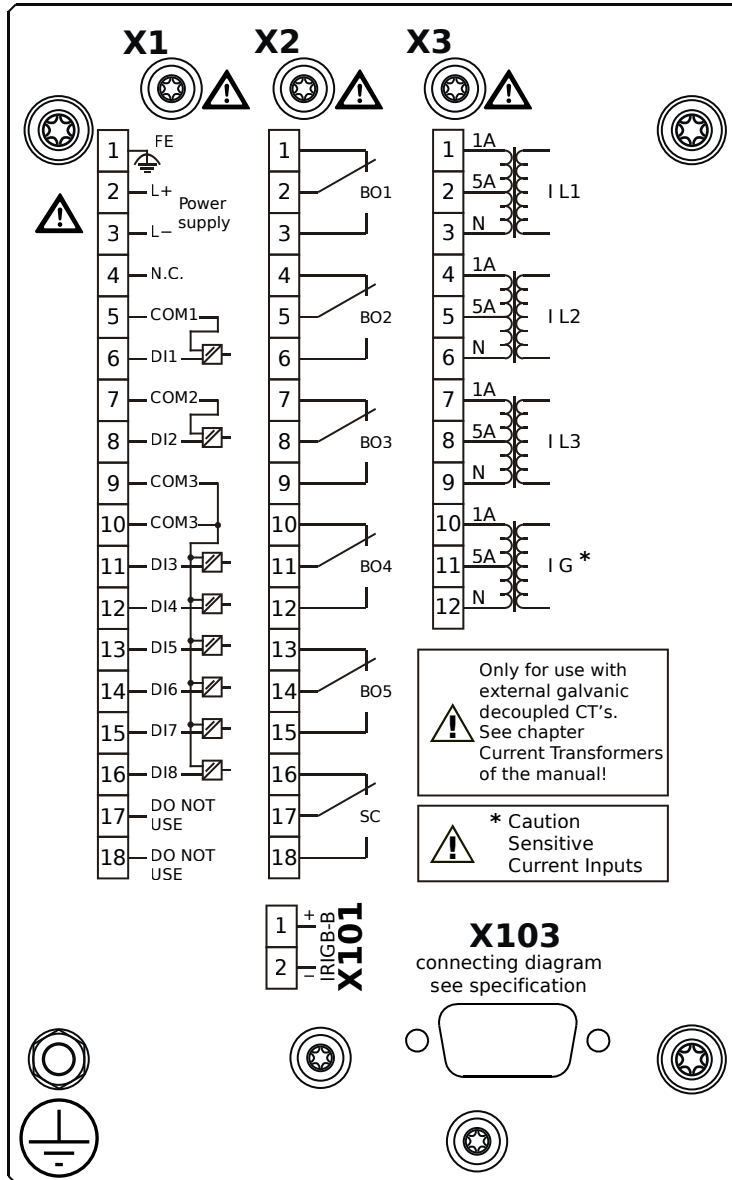
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

**X3** – TIs: Standard phase current measuring card and sensitive ground current measuring

**X101** – IRIG-B00X

**X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, Fiber optics interface, ST Connector

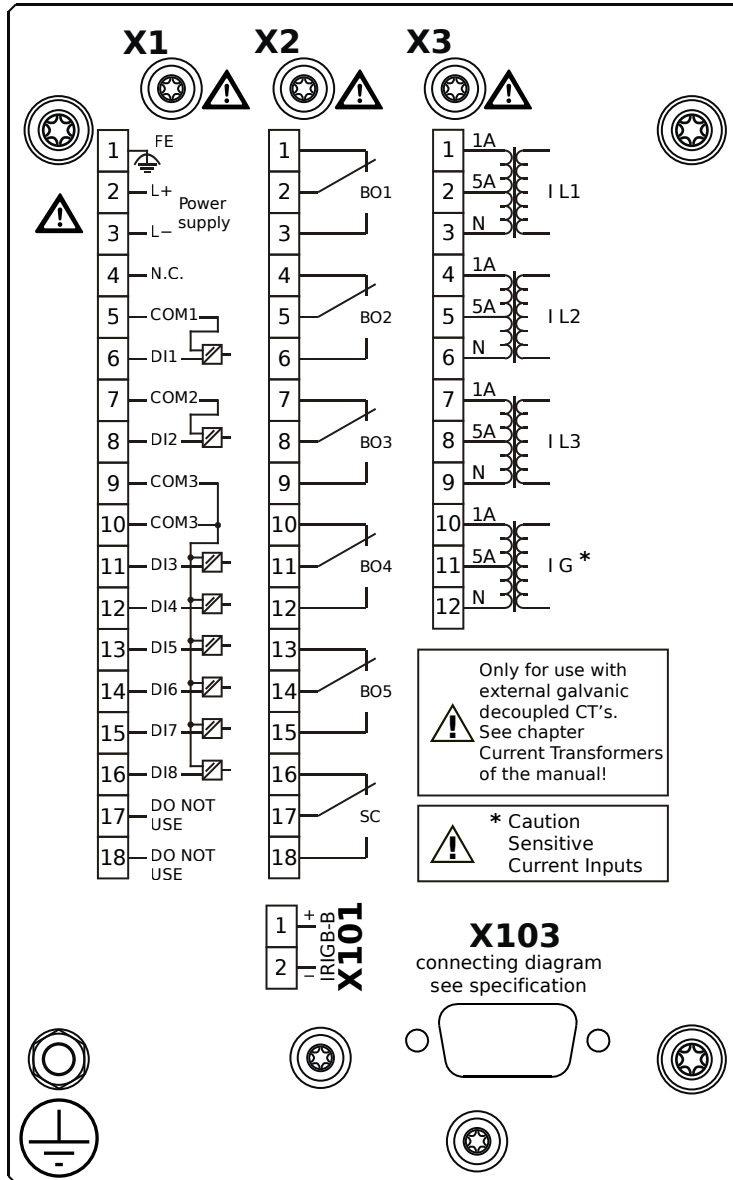
# MRI4-2A1BGA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A1BGB



## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

**X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

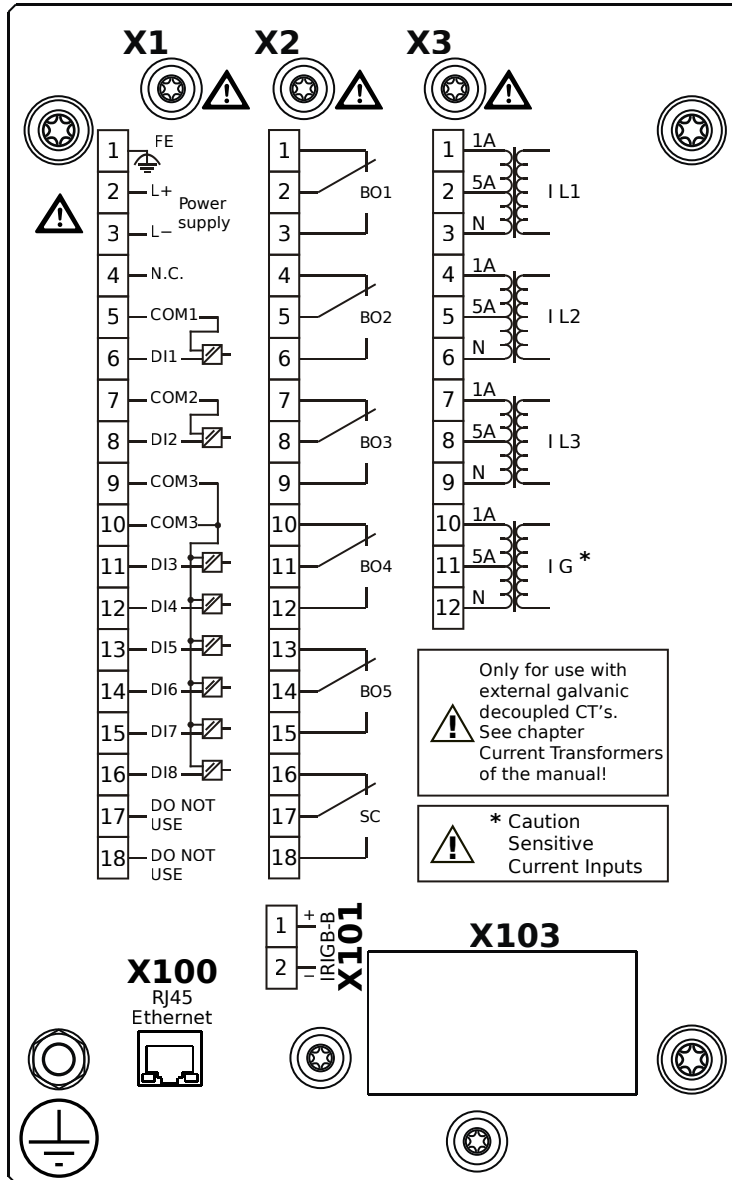
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

**X3** – TIs: Standard phase current measuring card and sensitive ground current measuring

**X101** – IRIG-B00X

**X103** – Modbus RTU / IEC 60870-5-103 / DNP3.0 RTU, RS485, D-SUB

# MRI4-2A1BHA

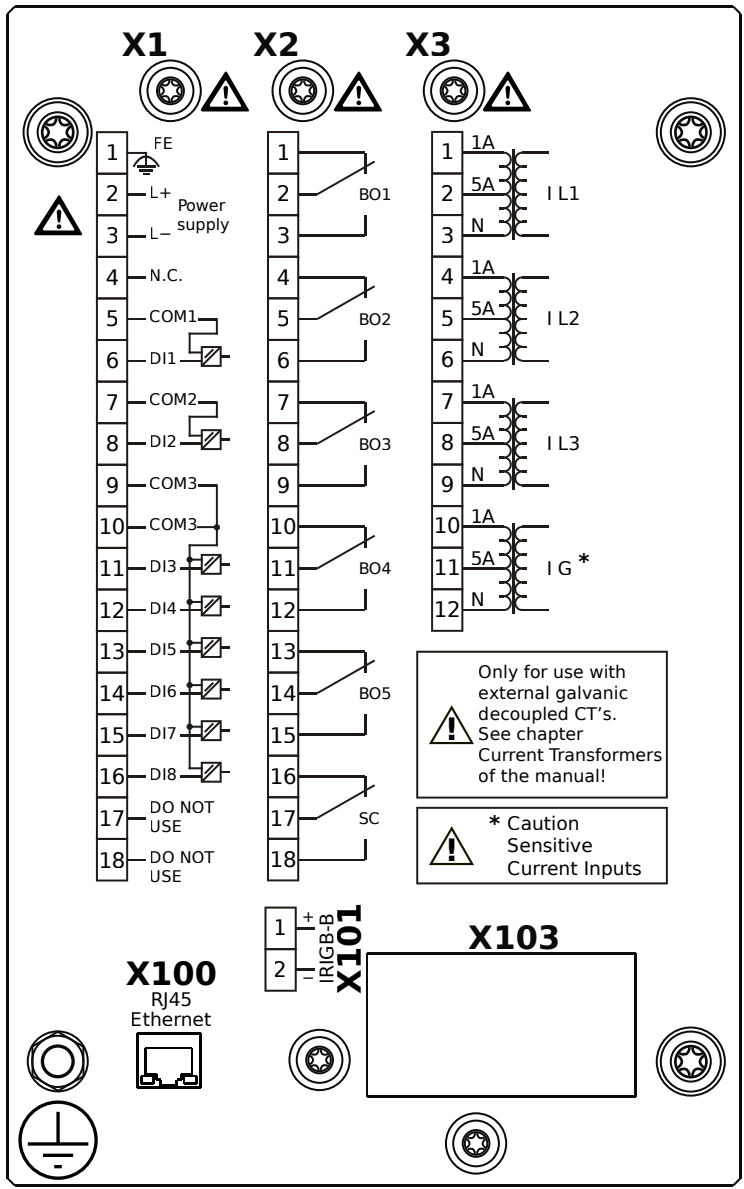


## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X



# MRI4-2A1BHB

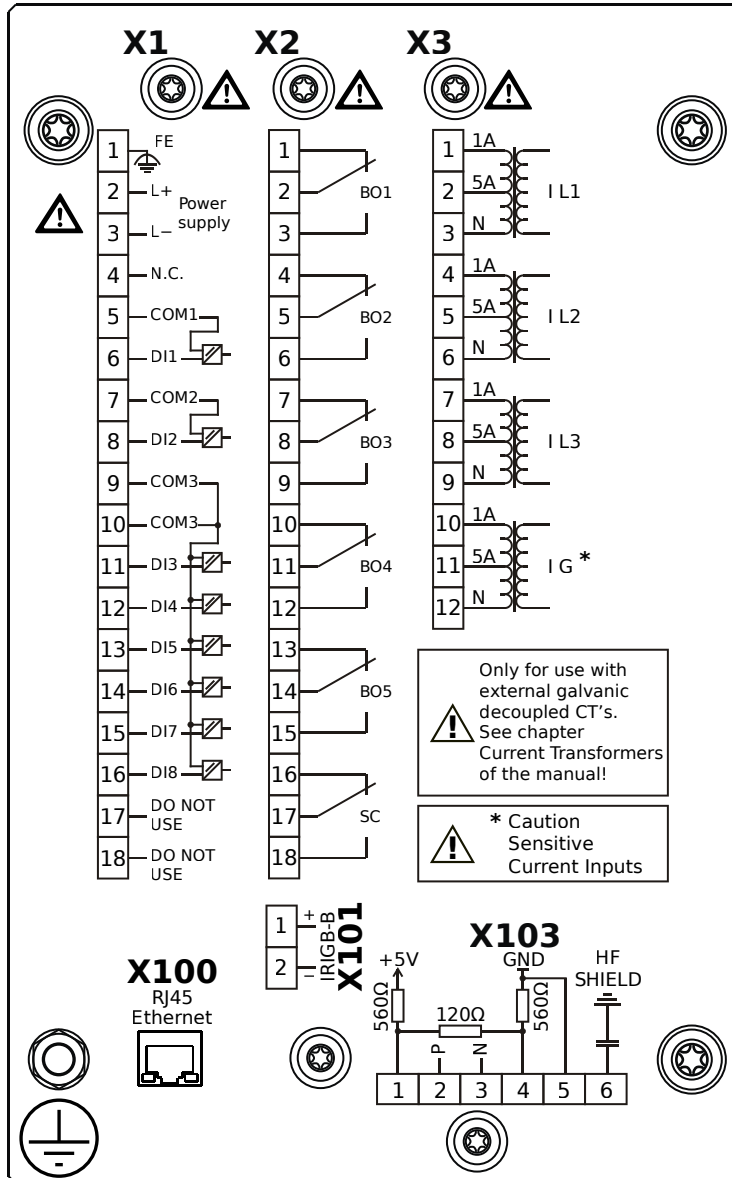


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X

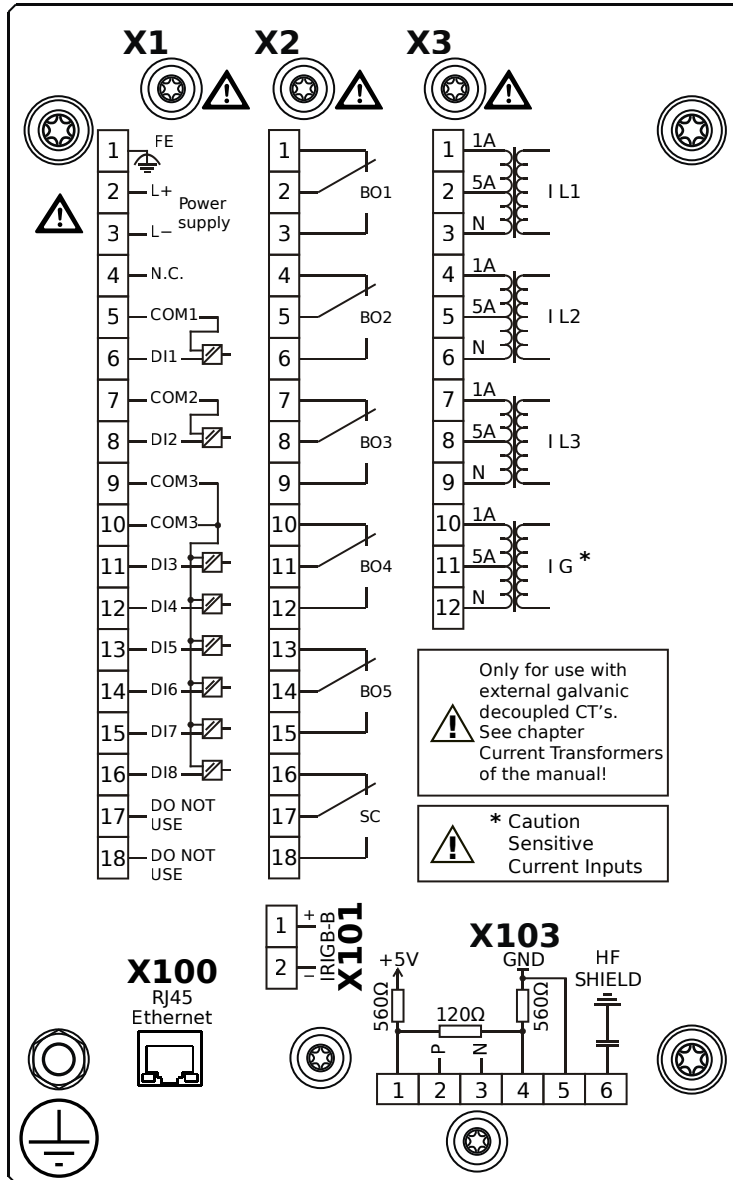
# MRI4-2A1BIA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

# MRI4-2A1BIB

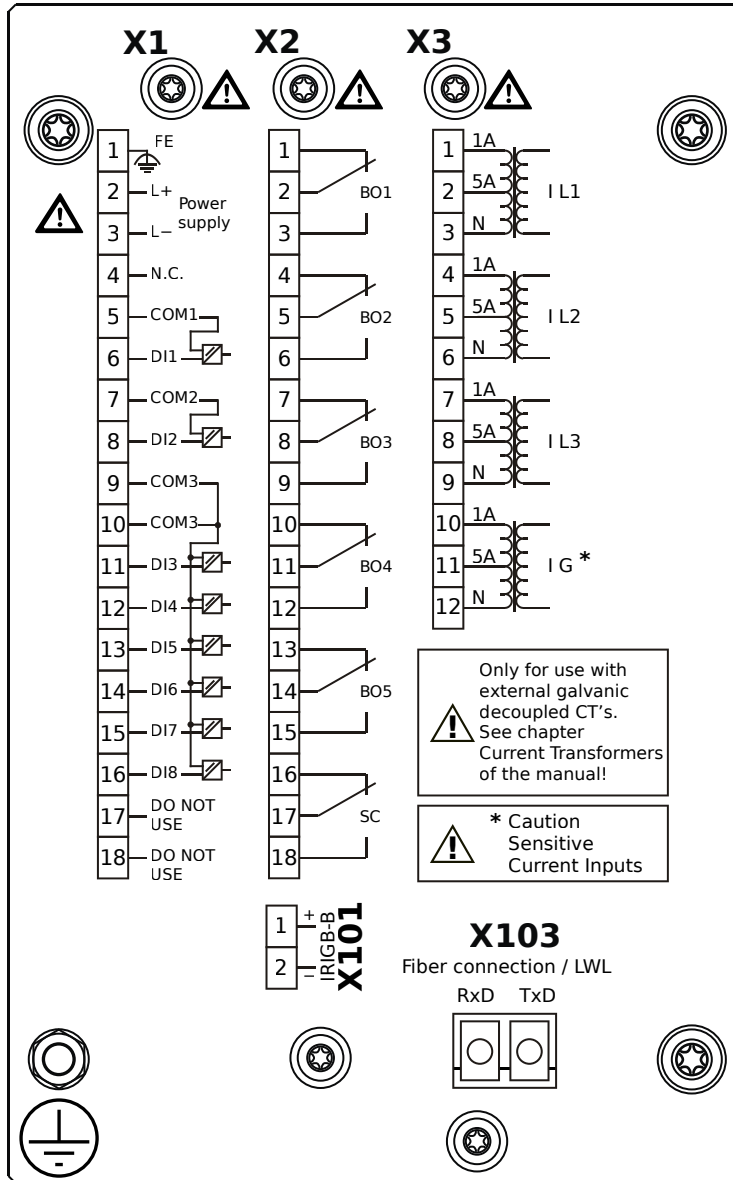


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

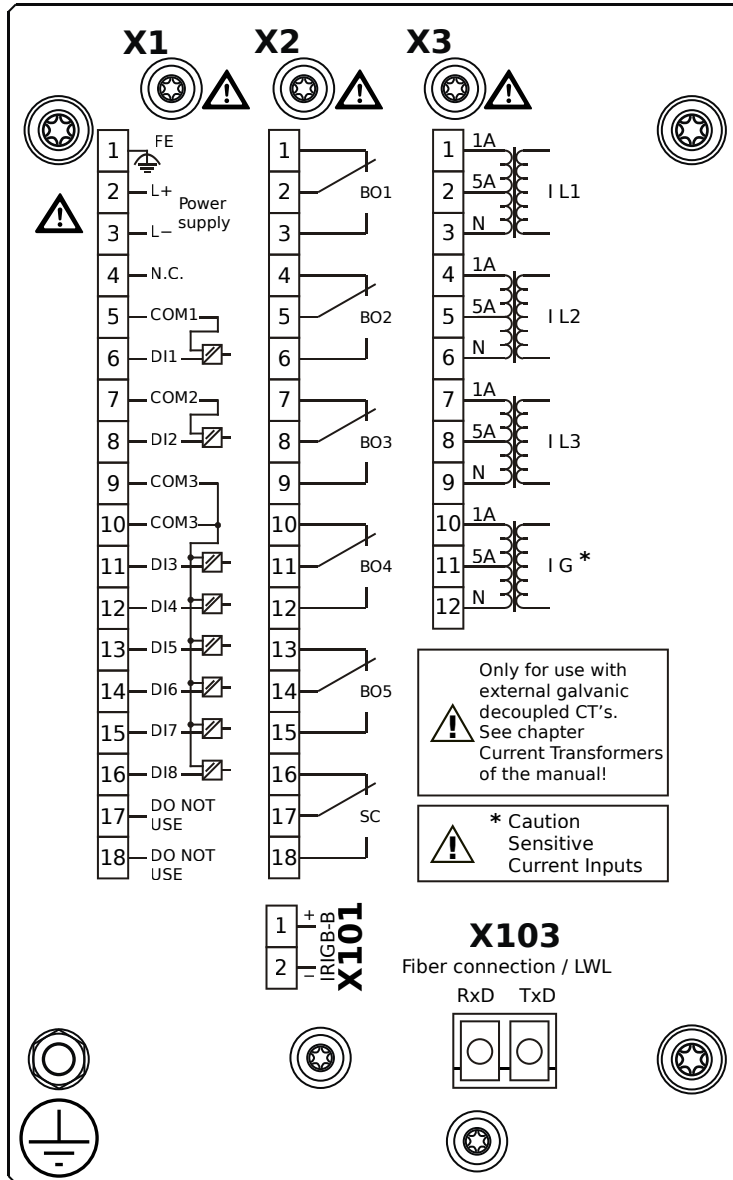
# MRI4-2A1BKA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1BKB



## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

**X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs

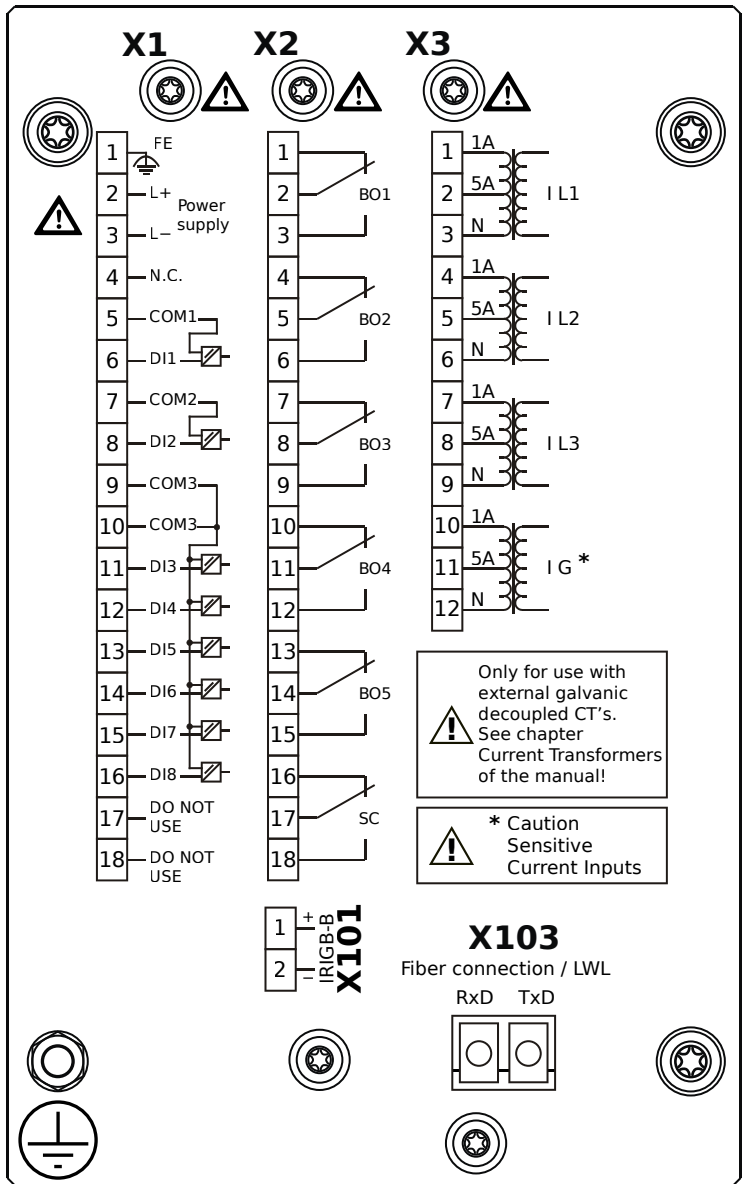
**X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact

**X3** – TIs: Standard phase current measuring card and sensitive ground current measuring

**X101** – IRIG-B00X

**X103** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

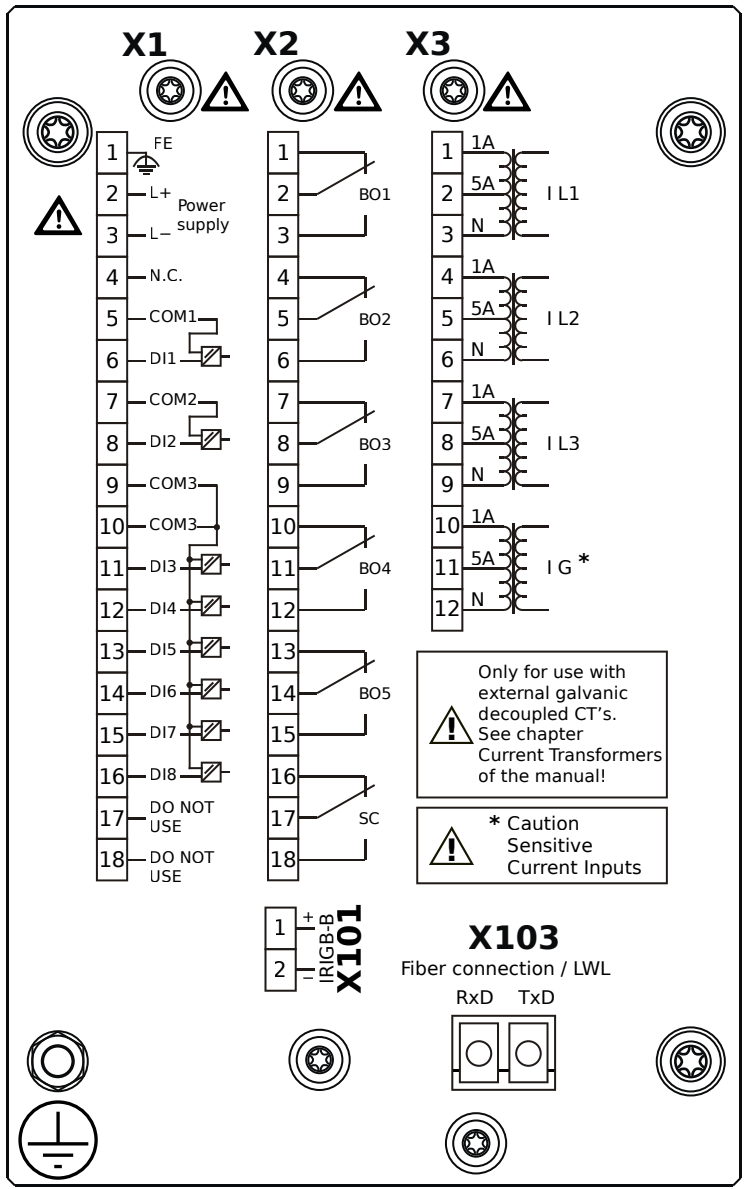
# MRI4-2A1BLA



## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1BLB

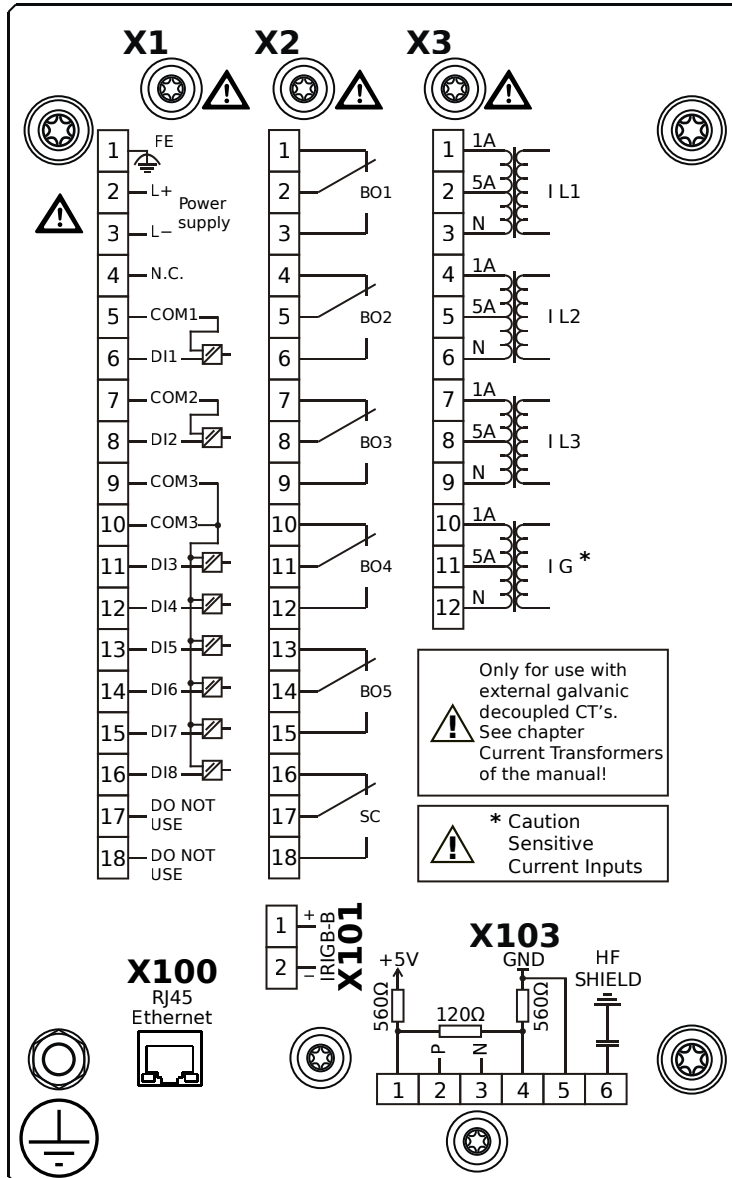


## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X101** – IRIG-B00X
- X103** – Modbus TCP / DNP3.0 TCP/UDP, Fiber optics interface, LC Connector

# MRI4-2A1BTA

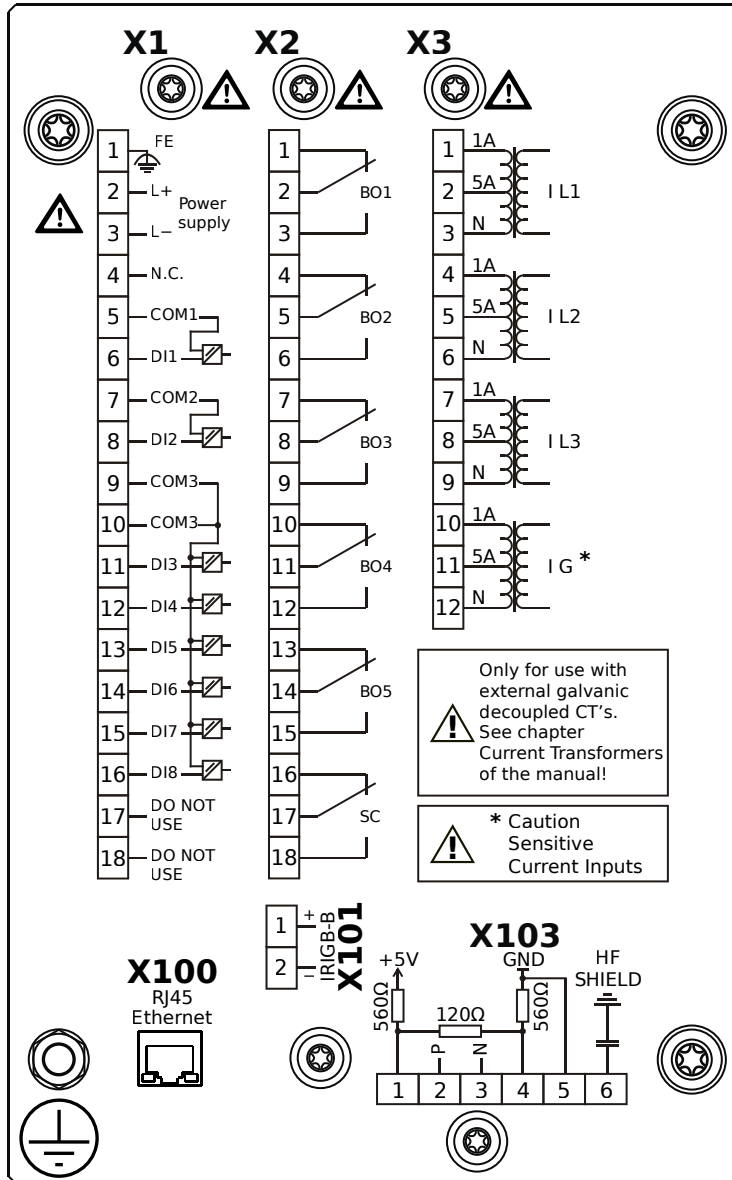


## Housing B1, small display, 19" rack mounting

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals



# MRI4-2A1BTB



## Housing B1, small display, 19" rack mounting

+ Conformal Coating (for installations in harsh environment)

- X1** – DI8-X1: Wide-range power supply unit, incl. 2 non-grouped digital inputs and 6 grouped digital inputs
- X2** – OR5: Assembly Group with 5 Output Relays (Changeover / Form C) + 1 Supervision Contact
- X3** – TIs: Standard phase current measuring card and sensitive ground current measuring
- X100** – IEC 61850 / Modbus TCP / DNP3.0 TCP/UDP, Ethernet interface, 100 Mbit/s, RJ45 (BASE100-FX)
- X101** – IRIG-B00X
- X103** – IEC 60870-5-103 / Modbus RTU / DNP3.0 RTU, RS485, Terminals

## Appendix – Legend

In this legend designations of various device types are listed, e.g. transformer protection, motor protection, generator protection, etc. Therefore it can occur that not every designation actually appears on the wiring diagram of your device.

<b>PE</b>	– Connection of protective earth (see chapter Grounding in the Technical Manual).
<b>FE</b>	– Connection of functional earth (see chapter Grounding in the Technical Manual).
<b>Power Supply</b>	– Connection for auxiliary power supply.
<b>IL1</b>	– Phase current input L1 (in some countries designated as IA).
<b>IL2</b>	– Phase current input L2 (in some countries designated as IB).
<b>IL3</b>	– Phase current input L3 (in some countries designated as IC).
<b>ILx C–D</b>	– WIC1 Test windings.
<b>ILx S1–S2</b>	– WIC1 phase current inputs.
<b>IL1 W1 ... IL3 W1</b>	– Phase current input L1...L3, winding side 1.
<b>IL1 W2 ... IL3 W2</b>	– Phase current input L1...L3, winding side 2.
<b>IG</b>	– Ground (earth) current input.
<b>IG W1, IG W2</b>	– Ground (earth) current input, winding side 1 / 2.
<b>VL1</b>	– Phase-to-neutral voltage L1 (in some countries designated as VA).
<b>VL2</b>	– Phase-to-neutral voltage L2 (in some countries designated as VB).
<b>VL3</b>	– Phase-to-neutral voltage L3 (in some countries designated as VC).
<b>VL12</b>	– Phase-to-phase voltage V12 (in some countries designated as VAB).
<b>VL23</b>	– Phase-to-phase voltage V23 (in some countries designated as VBC).
<b>VL31</b>	– Phase-to-phase voltage V31 (in some countries designated as VCA).
<b>VX</b>	– 4th voltage measuring input for measuring residual voltage or synchro-check.
<b>BO</b>	– Binary output relay.
<b>NO / NC</b>	– Contact output, normally open (Form A) / closed (Form B).
<b>DI</b>	– Digital input.
<b>COM</b>	– Common connection of digital inputs.
<b>Out+, AnOut</b>	– Analog output + (0/4...20 mA or 0...10 V).
<b>In–, AnIn</b>	– Analog input + (0/4...20 mA or 0...10 V).
<b>n.c.</b>	– Not connected.
<b>DO NOT USE</b>	– Do not use. (Caution: Non-usable internal wiring may exist.)
<b>SC</b>	– Self-supervision contact.
<b>HF SHIELD</b>	– Connection cable shield.
<b>Fiber Optics / LWL</b>	– Fiber optic connection.

# High **PROTEC**

## MRI4

### WIRING DIAGRAMS

