

The connection boxes are required to connect the Kathrein RRU/ARU readers to a power supply. Additionally, the supply of the connected devices can be switched off with a defined power switch. In contrast to the Basic Box CB-B2, the Advanced Box CB-A2 also allows the GPIOs to be connected via a connection panel to actuators (e.g. warning light) or sensors (e.g. light barrier). These terminal boxes are mainly used in industrial plants or in outdoor areas.



### General Specifications

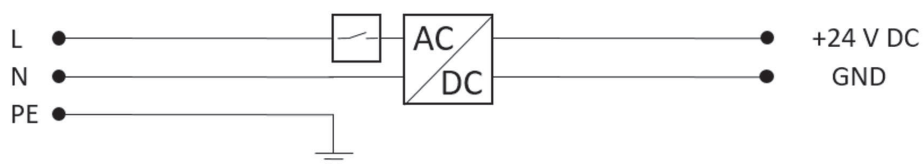
Order No.	52010539	52010540
Type	CB-A2	CB-B2
<b>Input</b>		
Voltage range	[V <sub>AC</sub> ]	100–240
AC current @ 230 V <sub>AC</sub>	[A~]	max 0.6
AC frequency range	[Hz]	44–66
GPIO	12 pins/ 4x input/4x output	-
Ethernet RJ45	1x	-
<b>Output</b>		
Voltage range	[V <sub>DC</sub> ]	24
DC current	[A]	0 – 2.5
Rated power, max	[W]	60
GPIO	12 pins/ 4x input/4x output	-
Ethernet RJ45	1x	-
Operating temperature range	[°C]	-25 to +55
Storage temperature range	[°C]	-40 to +85
Weight	[kg]	3.6
Dimensions		1.8
Housing	[mm]	250 x 250 x 130
Cable feed through <sup>1)</sup>		160 x 160 x 100
AC-Supply <sup>2)</sup>	[mm]	1x 4.5 – 10.0
DC-Supply <sup>2)</sup>	[mm]	1x 6.5
Ethernet	[mm]	1x 6.5
GPIO <sup>2)</sup>	[mm]	1x 3.2 – 6.3 14x 4.0 – 7.5 4x 5.5 – 10.5 2x 8.0 – 12.5
Degree of protection		IP66
Standards		CE
Housing material		plastic case, polyester

### Key Applications

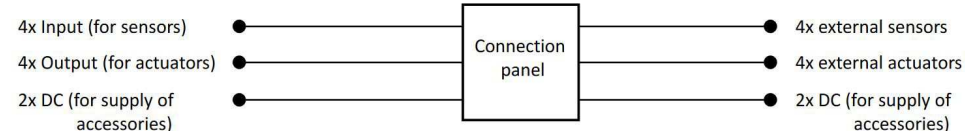
- Industrial installation for AutoID devices
- Supply for GPIO and Ethernet (only with CB-A2)
- Supply for DC (CB-A2; CB-B2)
- Defined AC switch-off

### Block Diagram

#### AC/DC supply for CB-A2 and CB-B2



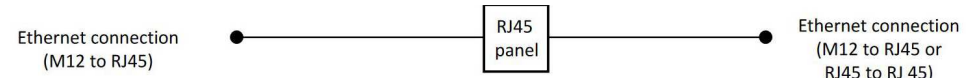
#### GPIO connection for CB-A2



### Note

The exact assignment of the connection panel can be found in the Kathrein RFID Reader User Guide.

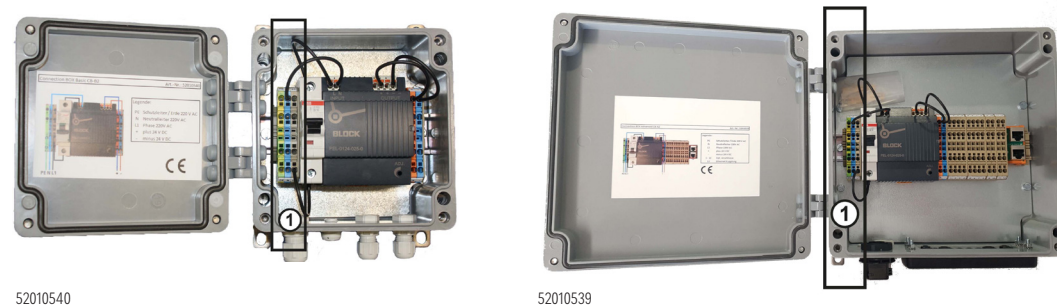
#### Ethernet connection for CB-A2



### Safety Note

#### WARNING

Improper interventions in the device can endanger its electrical safety. Unauthorised modifications to the unit and the use of spare parts and peripherals not sold or recommended by the manufacturer may result in fire, electric shock and injury.  
► Ensure that the connection of the area marked ① in the figure below is performed by appropriately qualified and trained personnel. The manufacturer accepts no liability for accidents or defects in connection devices caused by faulty wiring!



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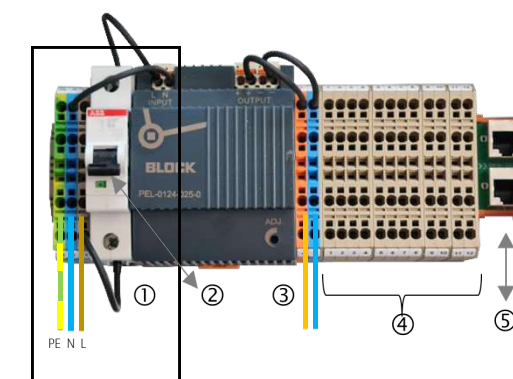
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### Pin assignment for connecting

#### Connection Box Advanced (CB-A2) Art.-Nr. 52010539

#### WARNING

Make sure that the AC connection of the area marked with ① is carried out by qualified and trained personnel

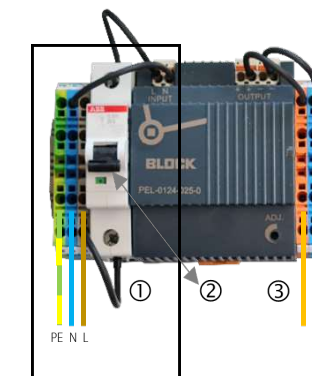


<b>① AC Input</b>		
PE	Green/Yellow	protective earth
N	Blue	
L	Brown	
<b>② Power Indicator</b>		
Green	DC side currentless	
Red	in operation	
<b>③ DC Output</b>		
+	Orange	+24 V DC
-	Blue	GND
To connect the reader, use the DC connection cables 52010358; -359 and connect: Line 1 (brown) / line 4 (black) with connection + (Orange) Line 2 (white) / line 3 (blue) with connection - (Blue)		
<b>④ Control Panel</b>		
1–12	Optional control panel for GPIO	
<b>⑤ Ethernet - Bridge to connect the network</b>		
2x	RJ45	

#### Connection Box Basic (CB-B2) Art.-Nr. 52010540

#### WARNING

Make sure that the AC connection of the area marked with ① is carried out by qualified and trained personnel



<b>① AC Input</b>		
PE	Green/Yellow	protective earth
N	Blue	
L	Brown	
<b>② Power Indicator</b>		
Green	DC side currentless	
Red	in operation	
<b>③ DC Output</b>		
+	Orange	+24 V DC
-	Blue	GND
To connect the reader, use the DC connection cables 52010358; -359 and connect: Line 1 (brown) / line 4 (black) with connection + (Orange) Line 2 (white) / line 3 (blue) with connection - (Blue)		