

AI 8

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8

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2

1

RUN

TxD

RxD

FdxCompact

DC 8	DC 7	DC 6	DC 5	DC 4	DC 3	DC 2	DC 1
AUX GND	AUX GND	AUX GND	AUX GND	AUX GND	AUX GND	AUX GND	AUX GND

Modbus B (+)

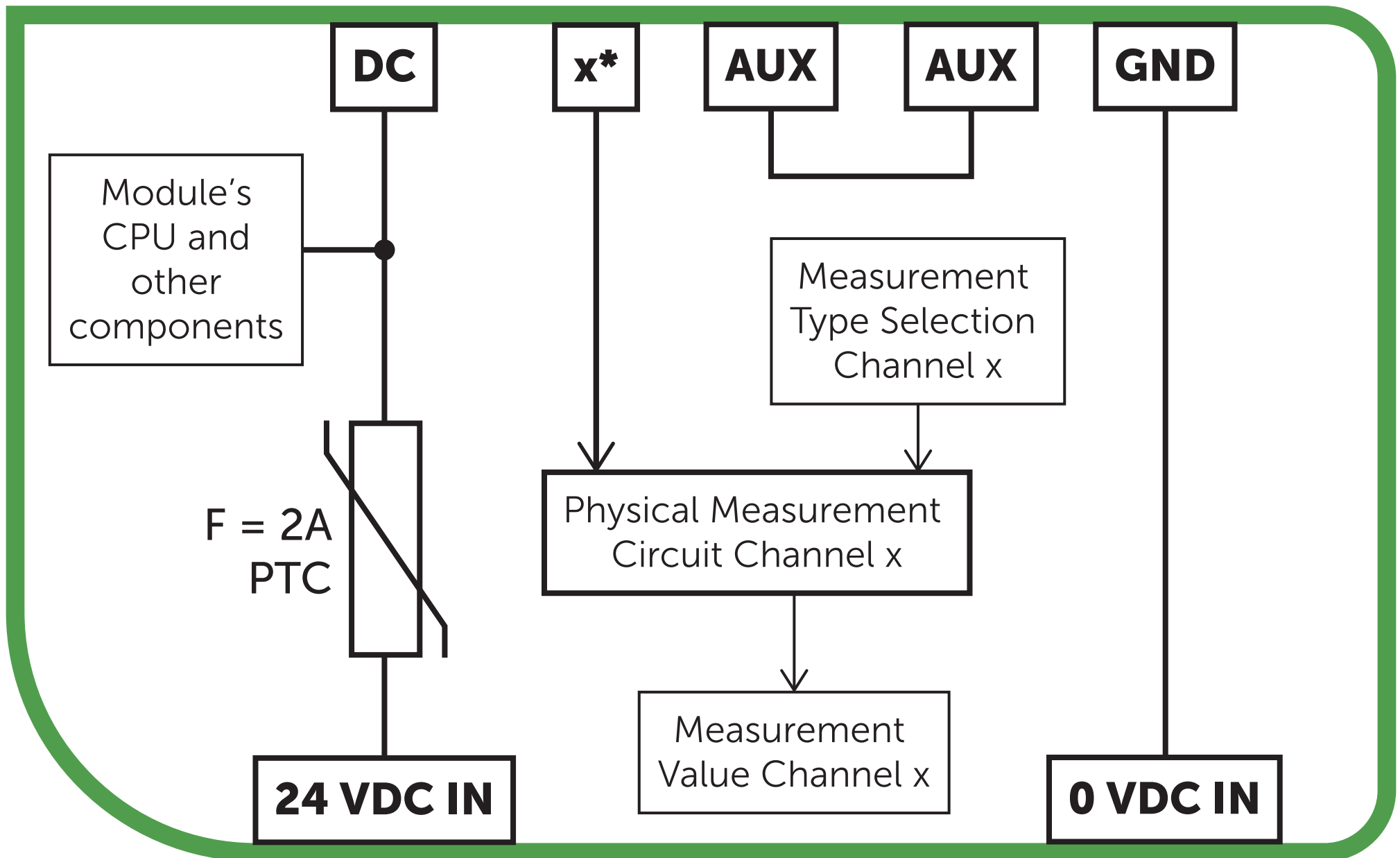
Modbus A (-)

0 VDC IN

0 VDC IN

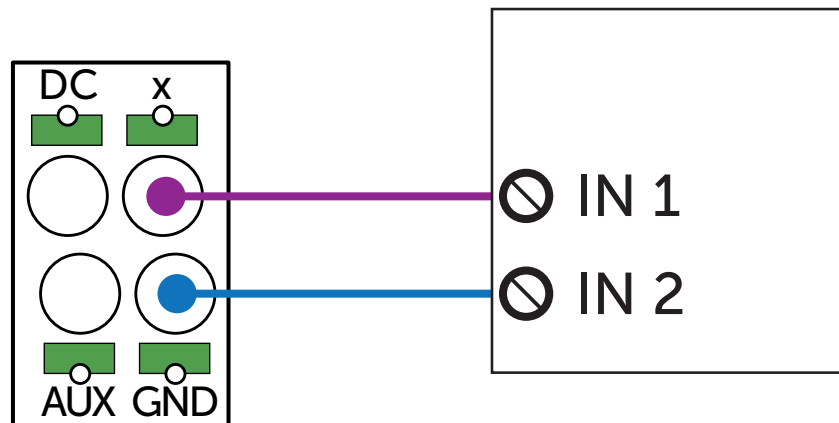
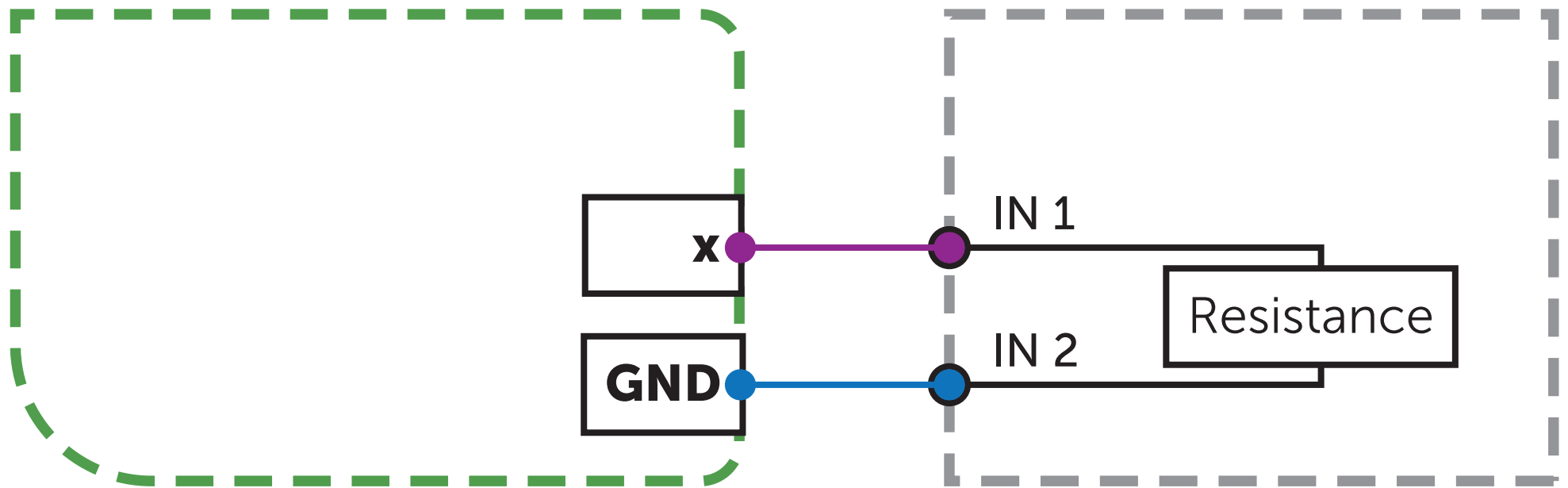
24 VDC IN

AI-8-C module's internal wiring and logic setup



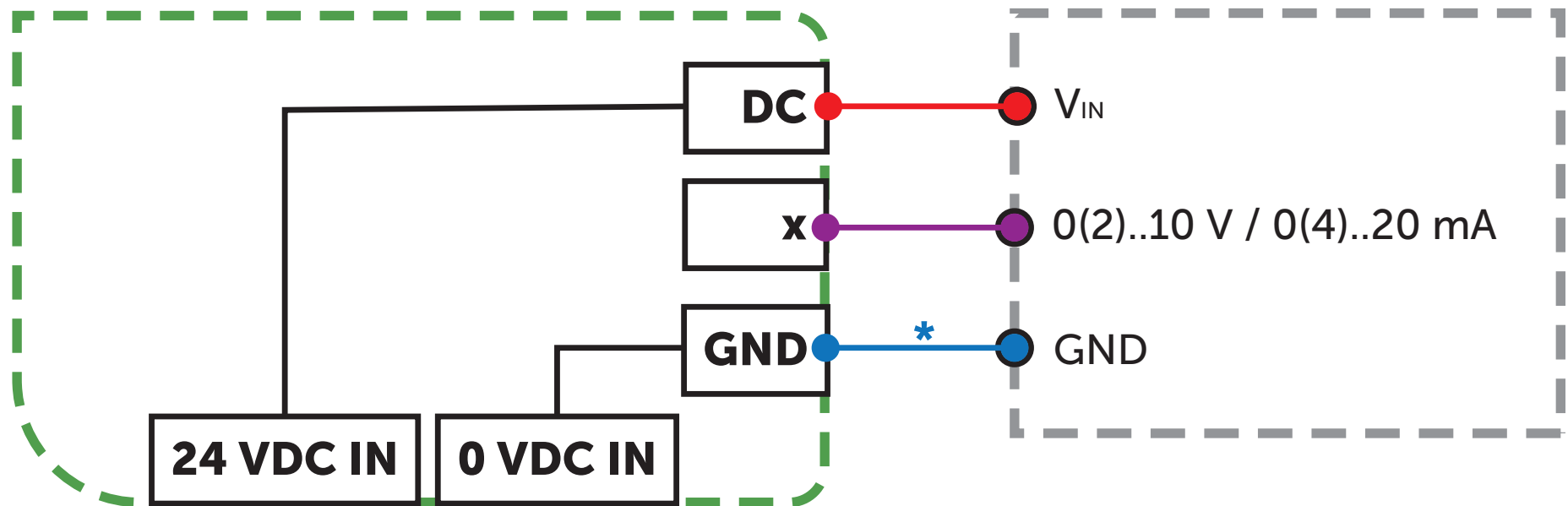
*x = 1..8

AI-8-C resistive sensor connection



AI-8-C voltage or current emitting sensor connection

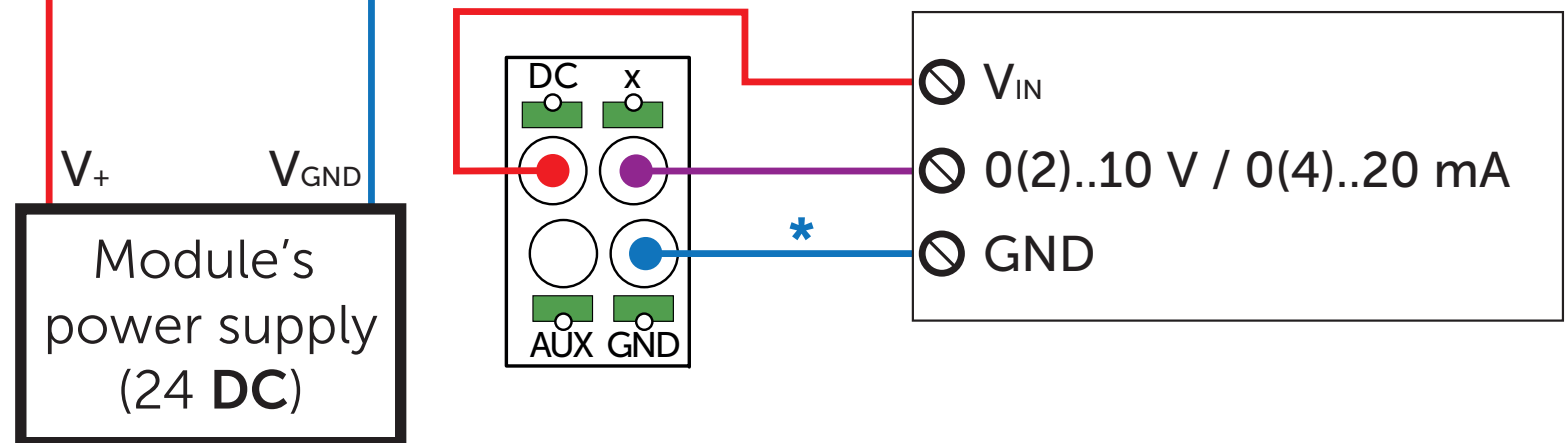
Field device powered directly from the module



This way of powering field devices is possible, but NOT recommended!

A short-circuit or other problem in 1 field device might damage the whole module!

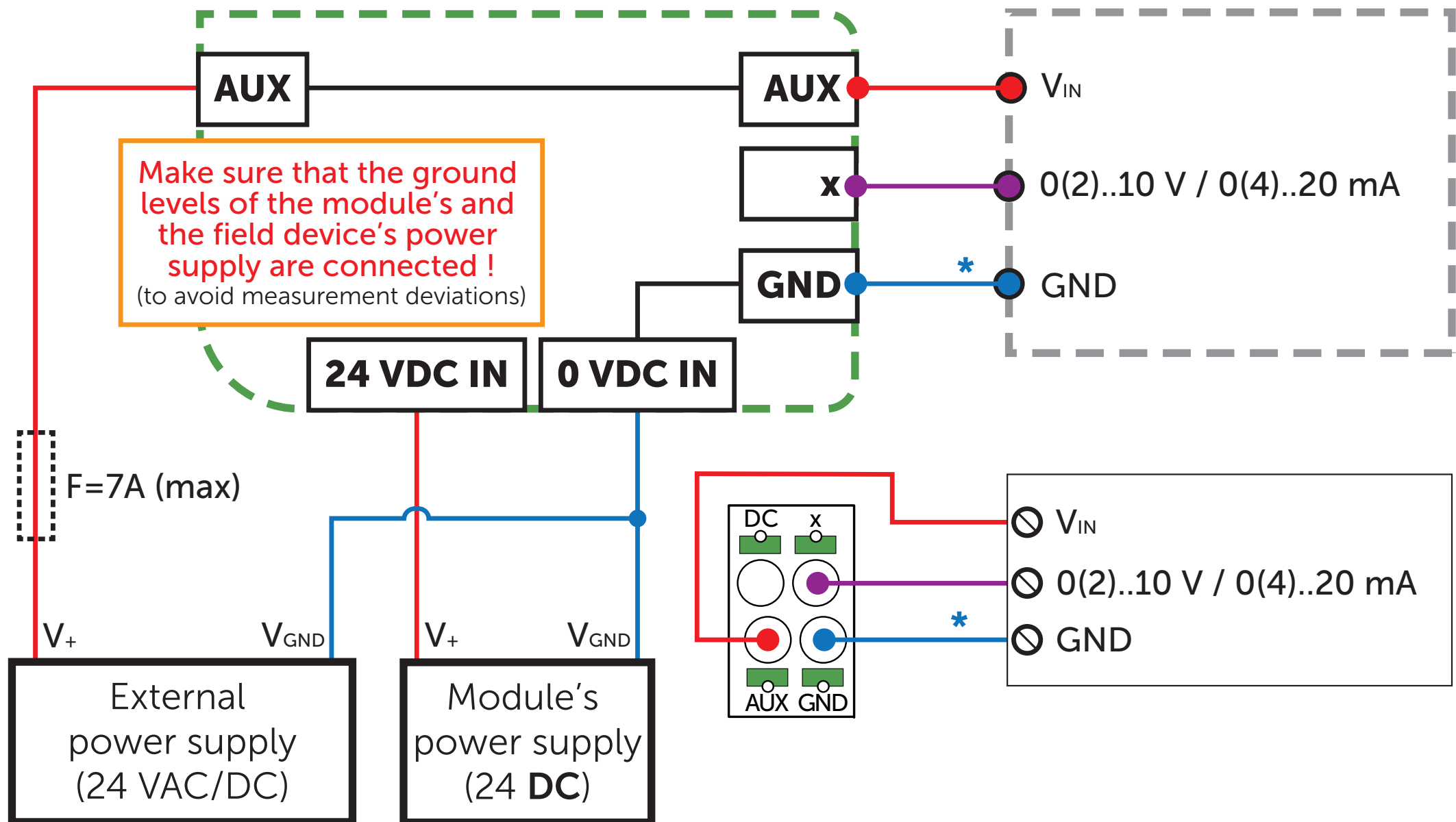
If you do power field devices through the module's power supply, make sure to not draw more than 2A.



* GND connection is not used for 2-wire current sensors

AI-8-C voltage or current emitting sensor connection

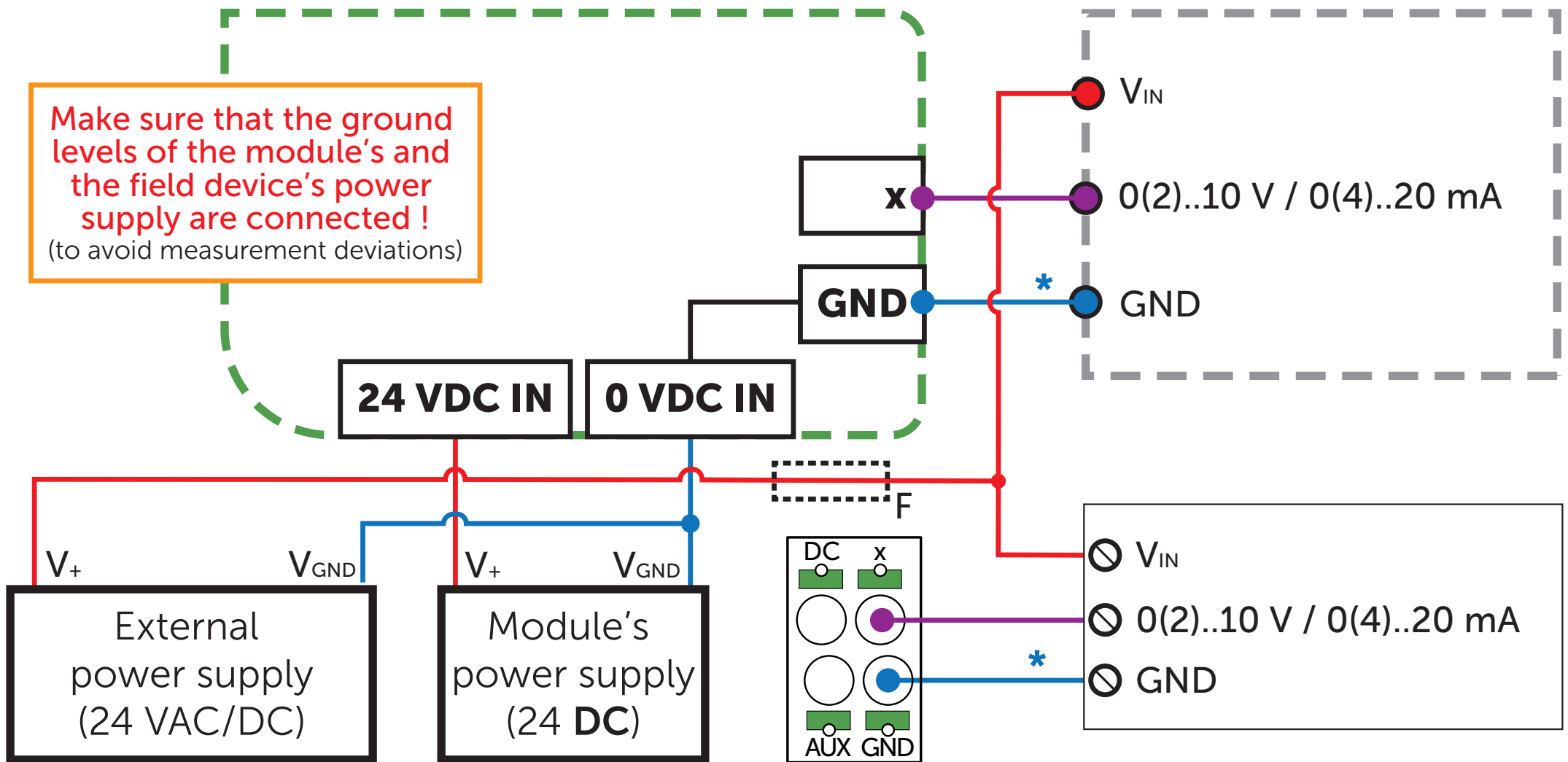
Field device powered through the module, using the Auxiliary connectors



* GND connection is not used for 2-wire current sensors

AI-8-C voltage or current emitting sensor connection

Field device powered from an external power supply (This is the recommended way!)

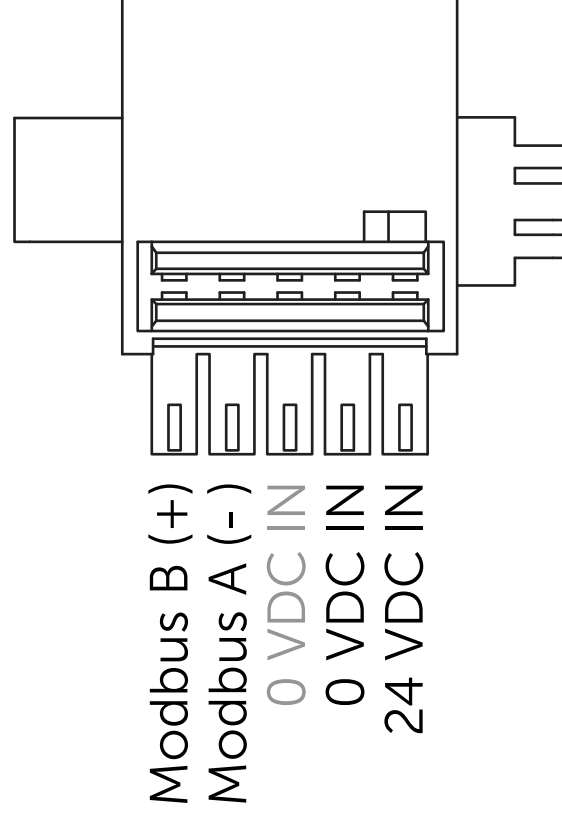
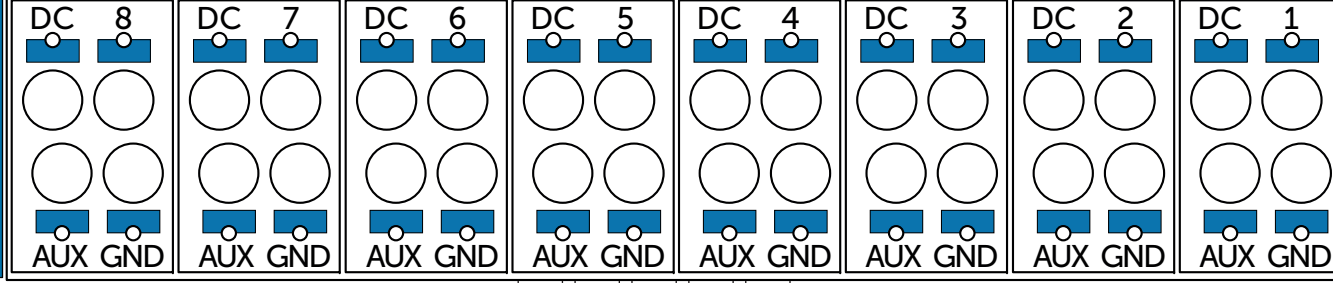


* The GND connection can also be made from the external power supply straight to the field device, and not through the module. In this case it is very important to connect both power supply's output ground level to each other. We recommend however to use the module's GND connector, to avoid mistakes and ending up with having two different GND levels on module and field devices.

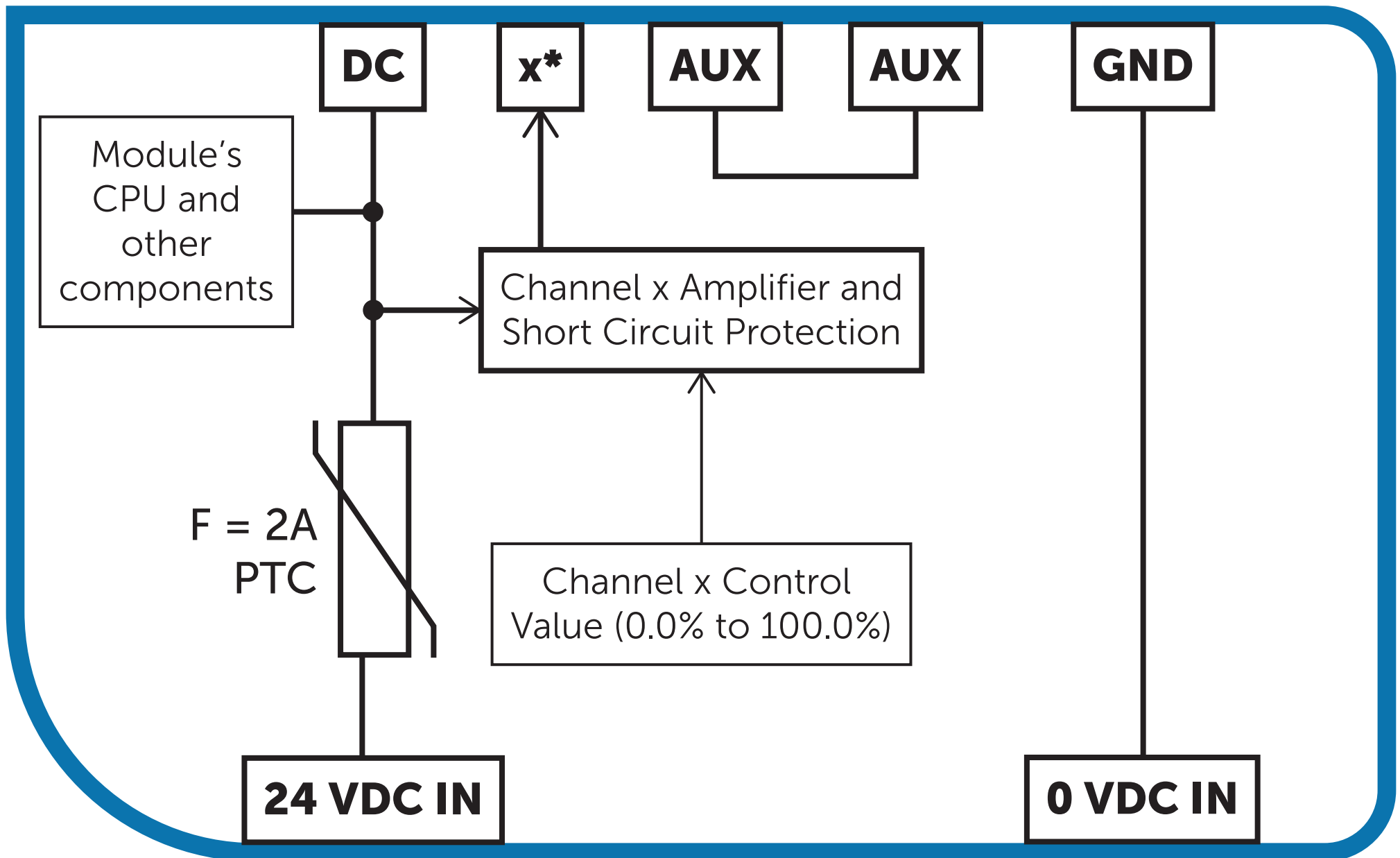
* GND connection is not used for 2-wire current sensors

AO 8

8 7 6 5 4 3 2 1
RUN TxD RxD **FdxCompact**



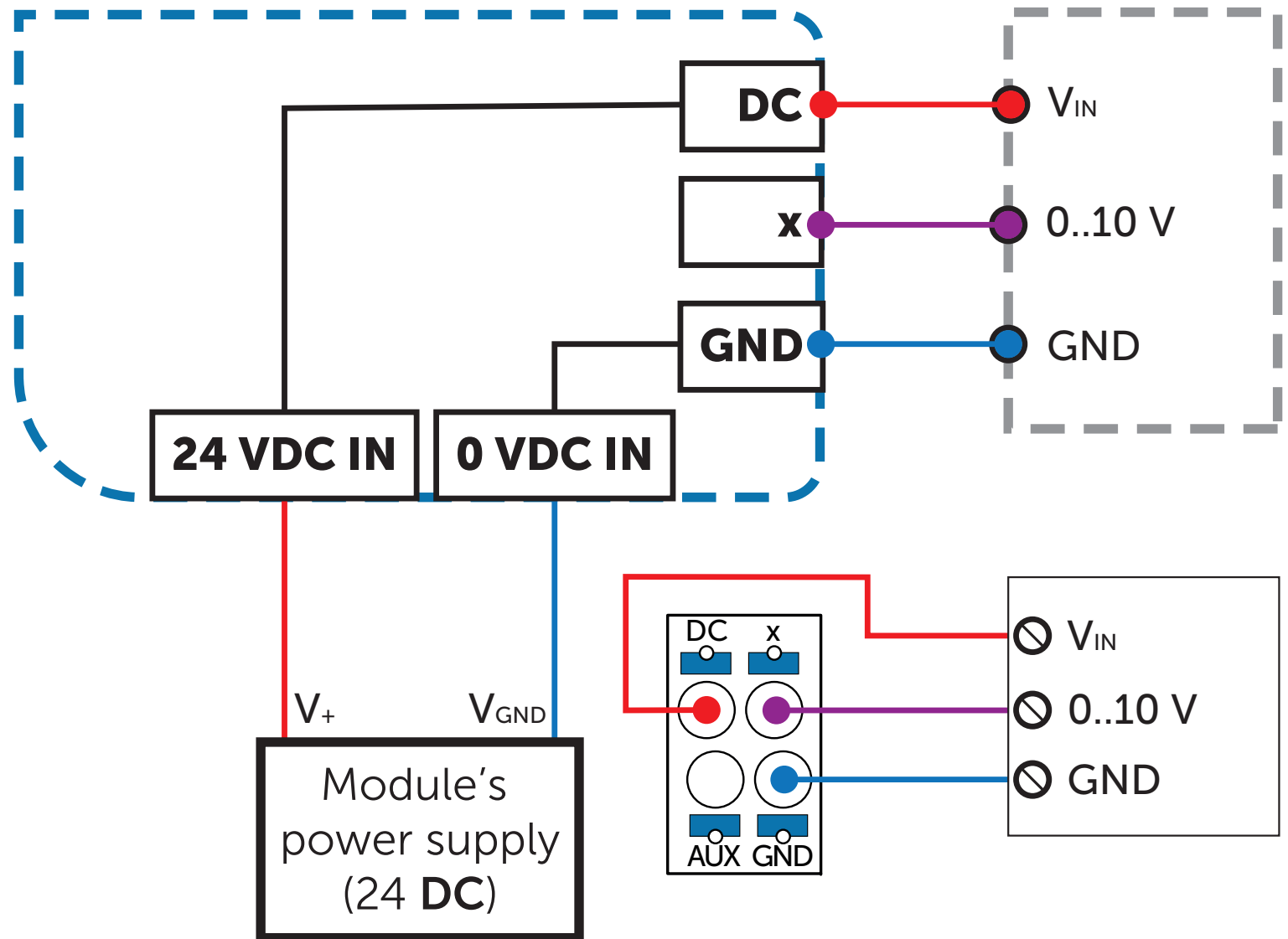
AO-8-C module's internal wiring and logic setup



*x = 1..8

AO-8-C 0..10 V signal (maximum 20 mA/channel)

Field device powered directly from the module



This way of powering field devices is possible, but NOT recommended!

A short-circuit or other problem in 1 field device might damage the whole module!

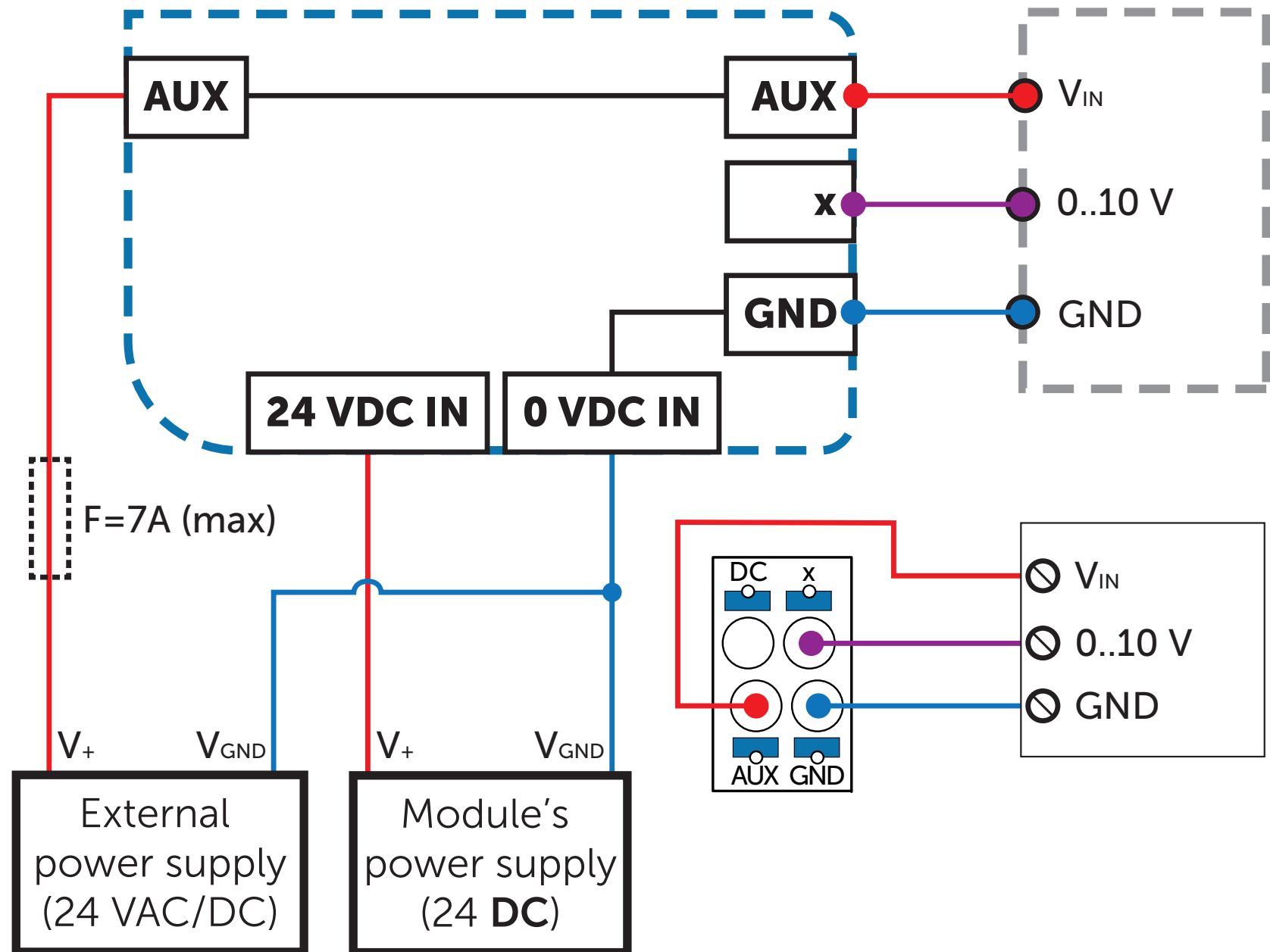
If you do power field devices through the module's power supply, make sure to not draw more than 2A.

AO-8-C 0..10 V signal (maximum 20 mA/channel)

Field device powered through the module, using the Auxiliary connectors

Make sure that the ground levels of the module's and the field device's power supply are connected !

(to avoid control signal deviations)

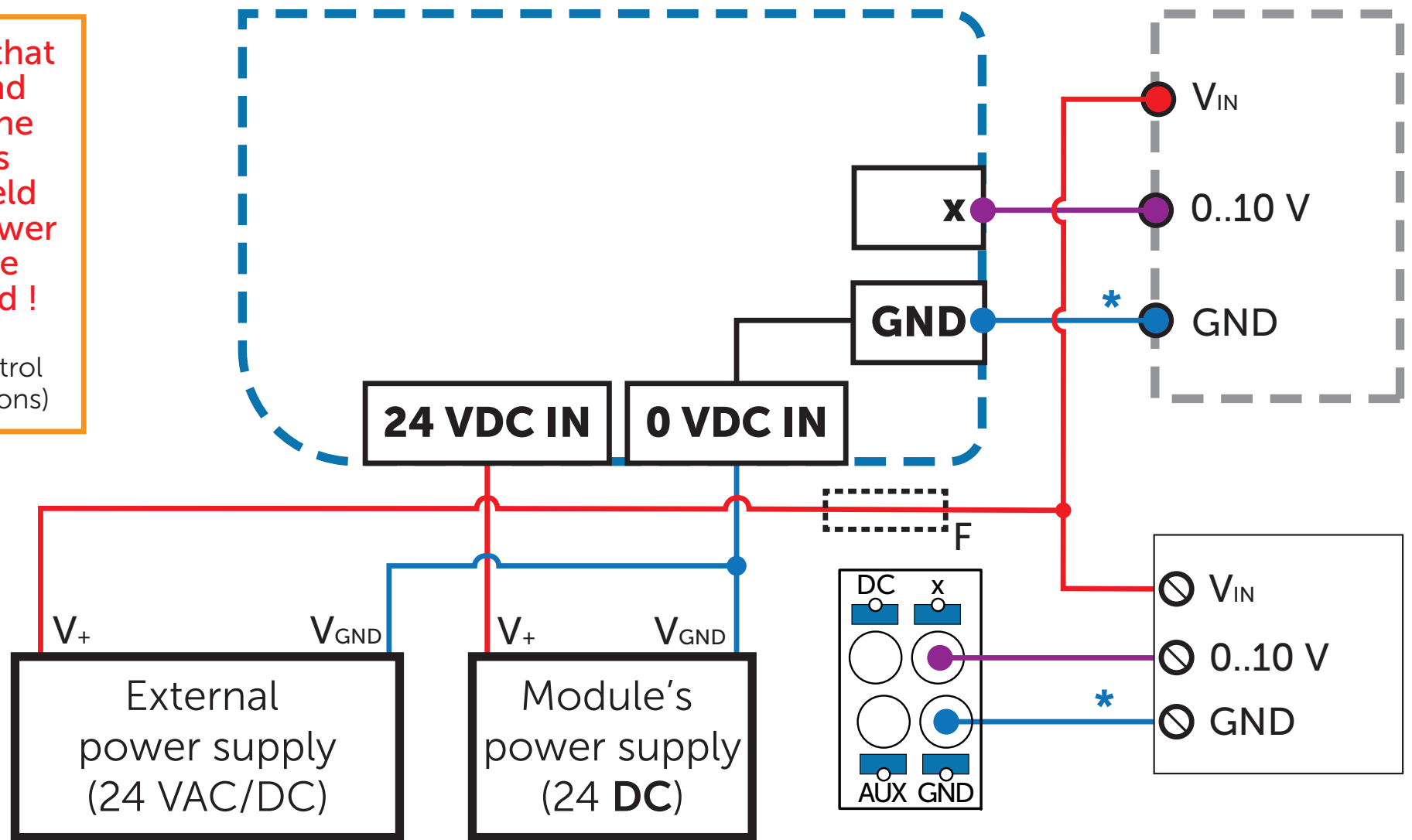


AO-8-C 0..10 V signal (maximum 20 mA/channel)

Field device powered from an external power supply **(This is the recommended way!)**

Make sure that the ground levels of the module's and the field device's power supply are connected !

(to avoid control signal deviations)



* The GND connection can also be made from the external power supply straight to the field device, and not through the module. In this case it is very important to connect both power supply's output ground level to each other. We recommend however to use the module's GND connector, to avoid mistakes and ending up with having two different GND levels on module and field devices.

DI 16

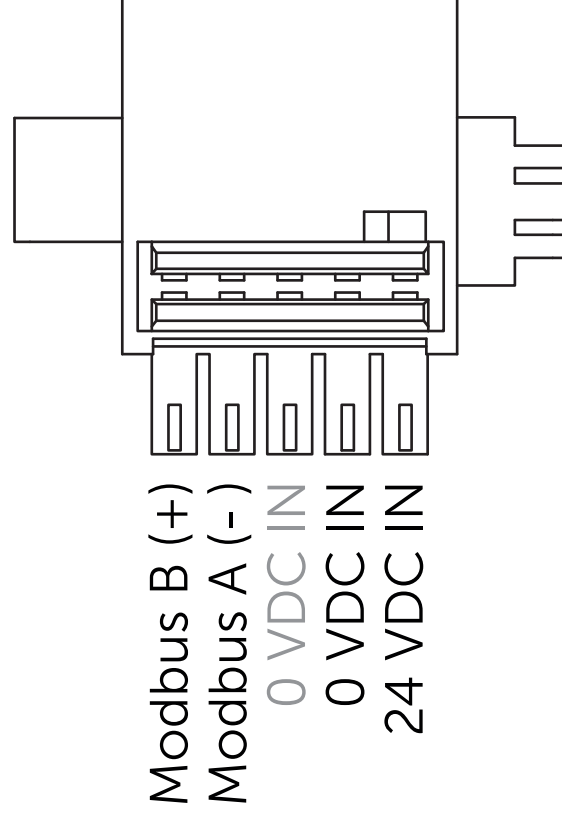
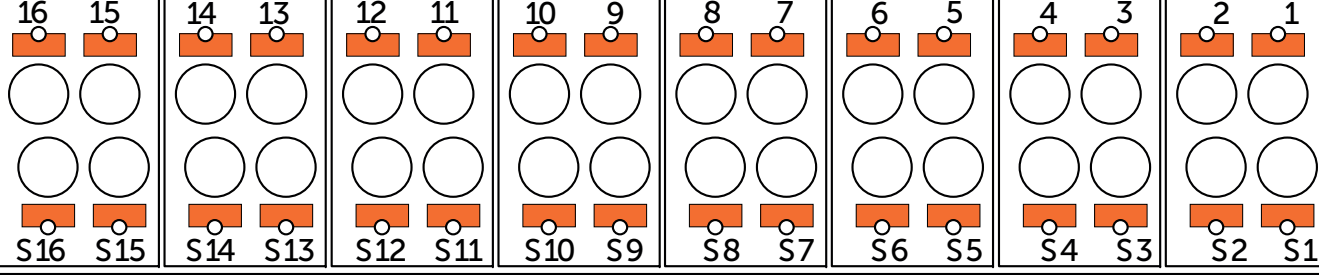
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

RUN

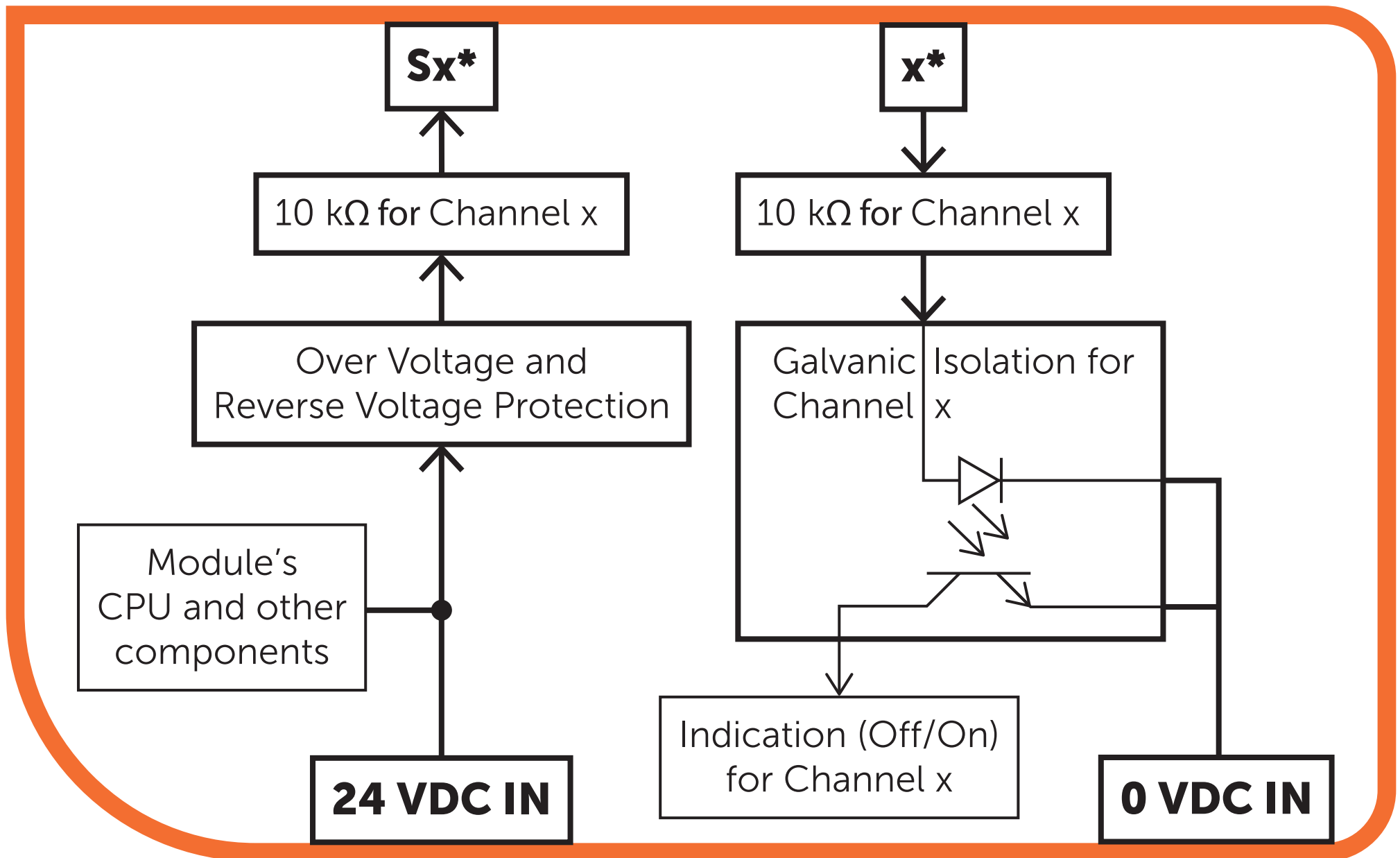
TxD

RxD

FdxCompact

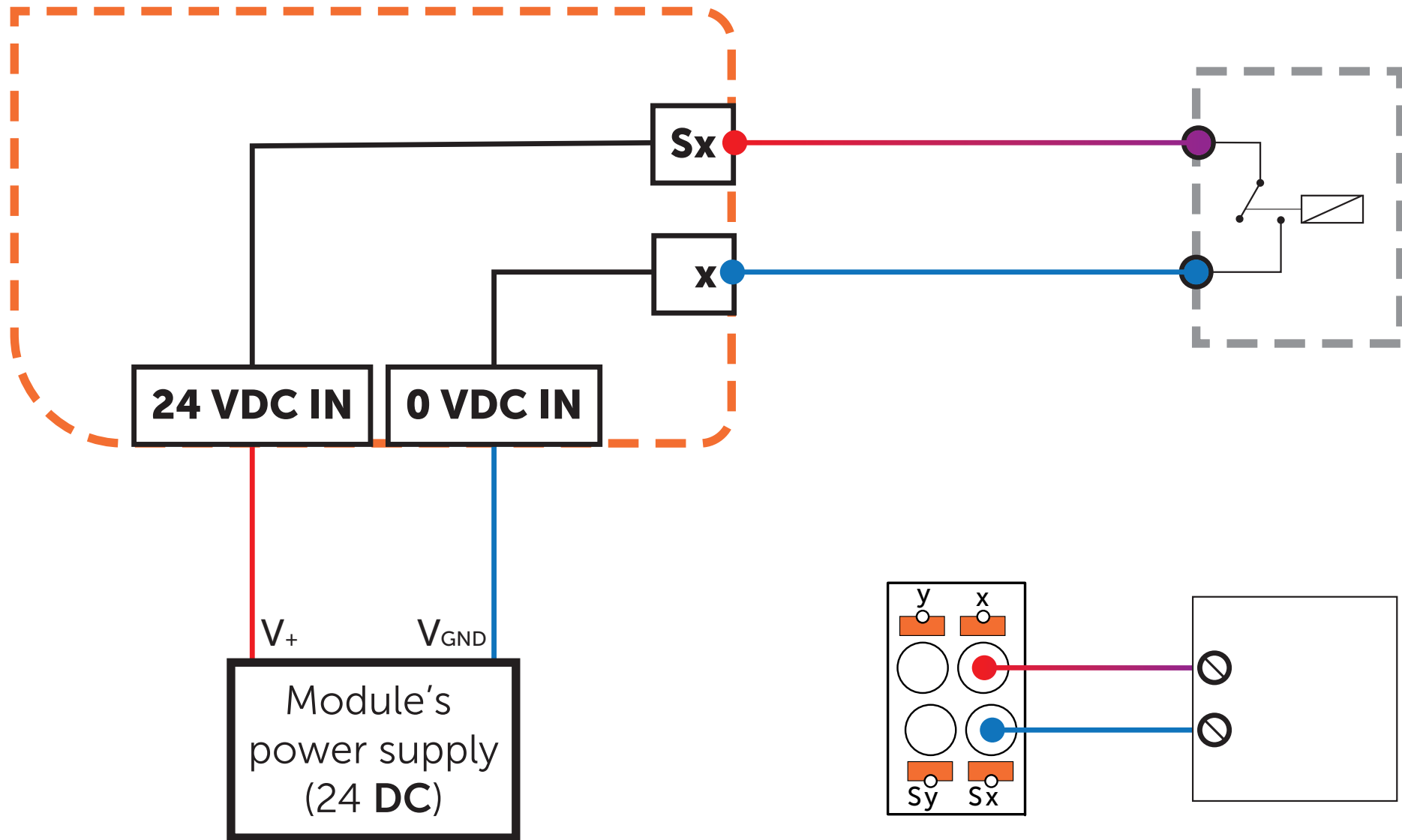


DI-16-C module's internal wiring and logic setup

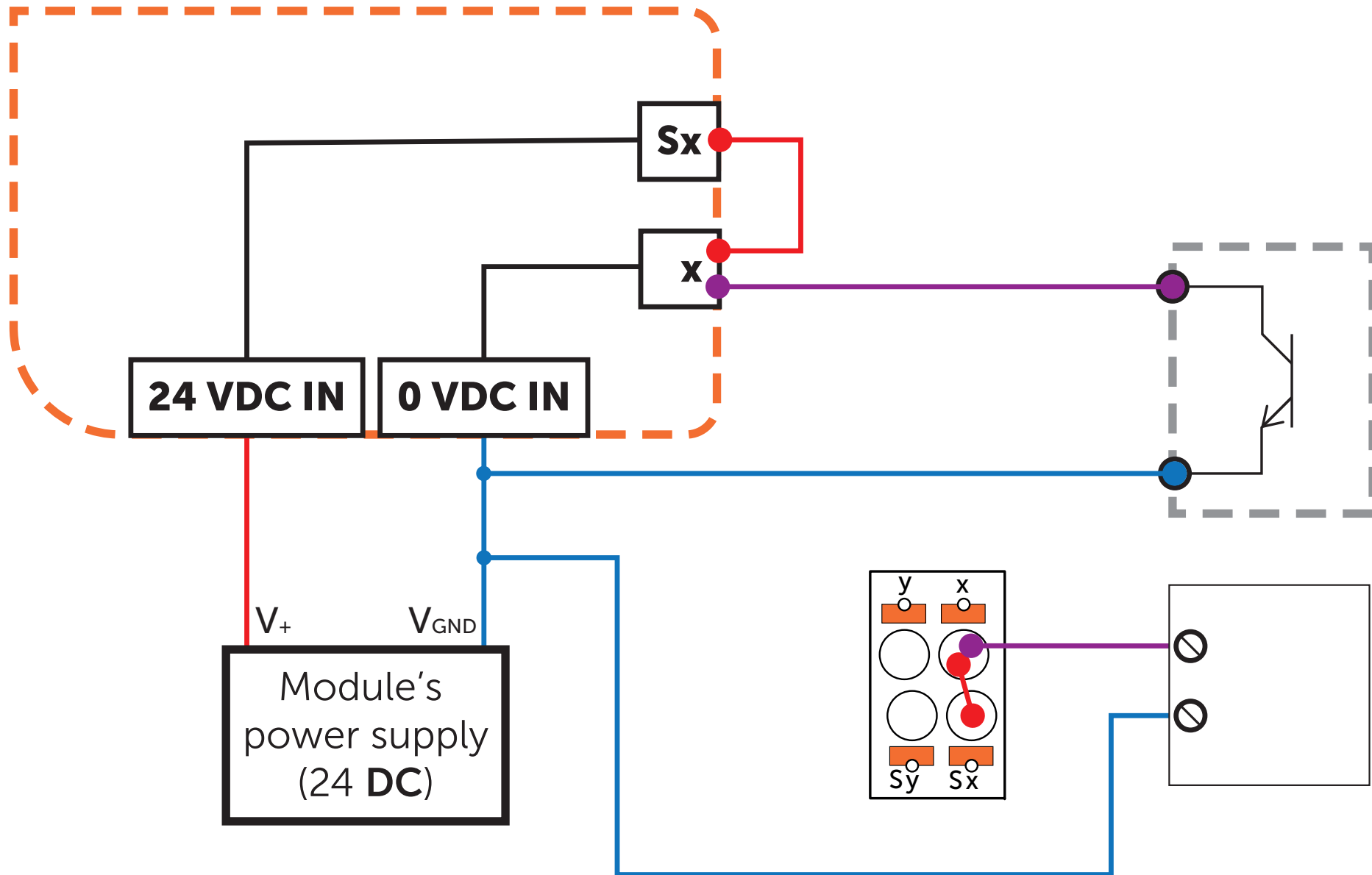


*x = 1..16

DI-16-C reading a potential free contact (e.g. relay)

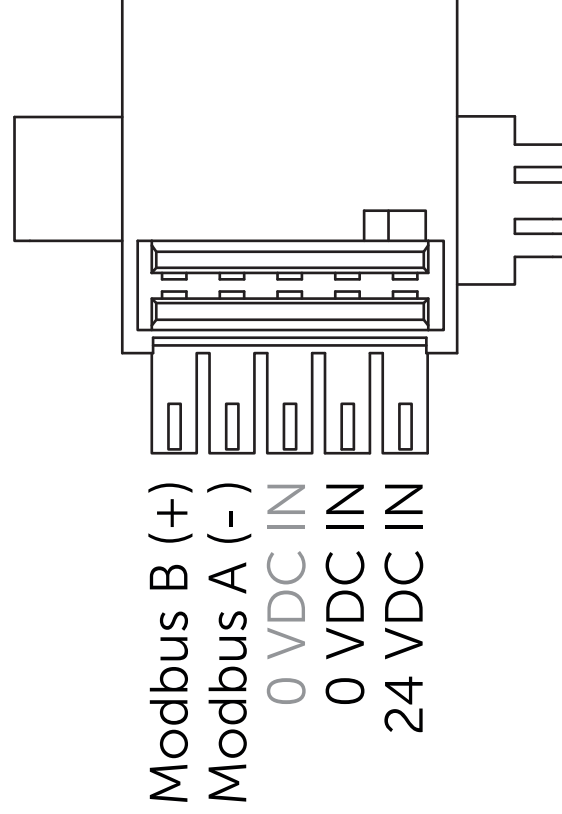
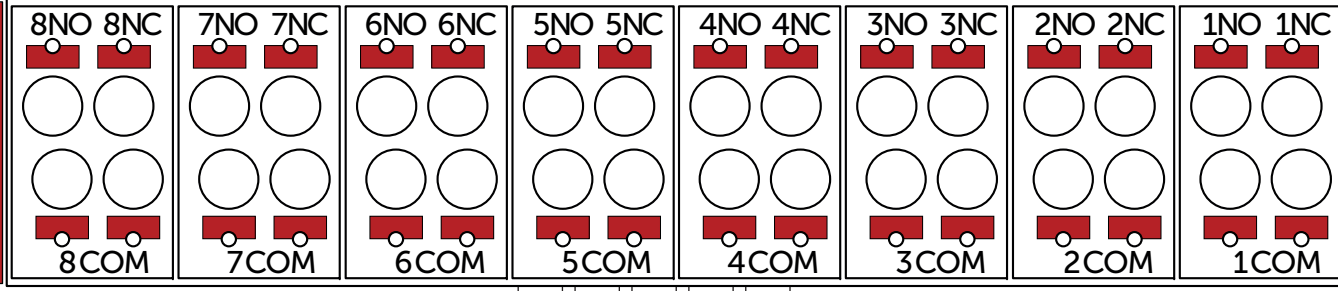


DI-16-C Reading a passive Open Collector Output

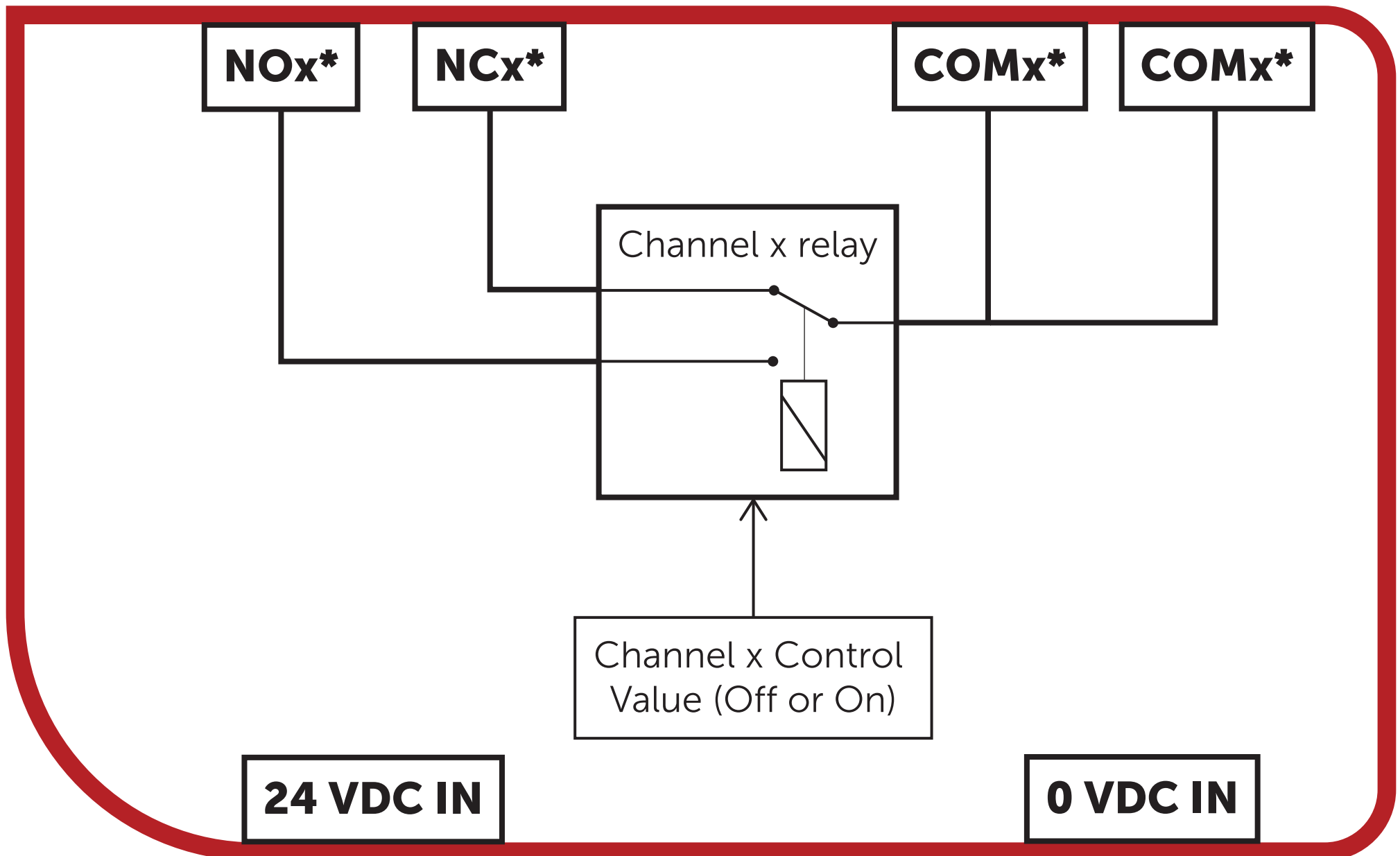


DO 8

8 7 6 5 4 3 2 1
RUN TxD RxD **FdxCompact**

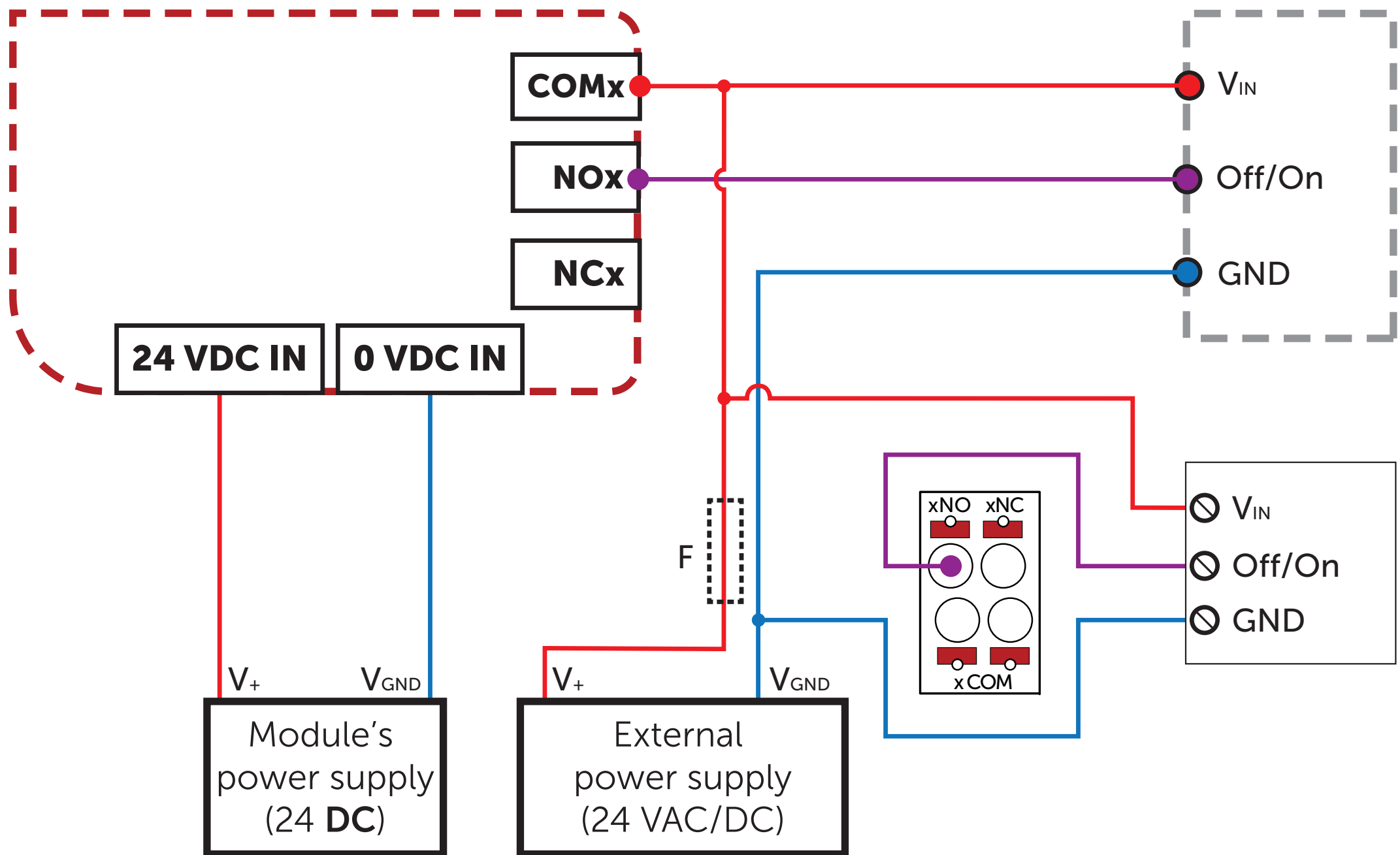


DO-8-C module's internal wiring and logic setup



*x = 1..8

DO-8-C Off/On control for field device



DO 16

OPEN COLLECTOR

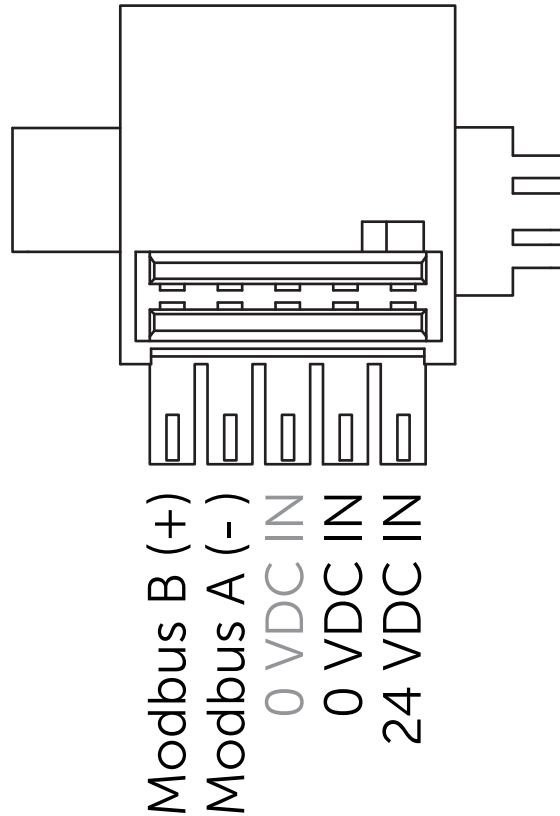
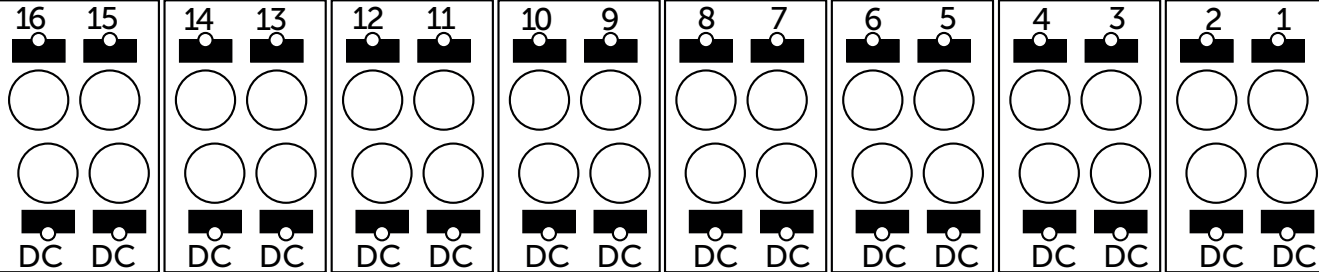
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

RUN

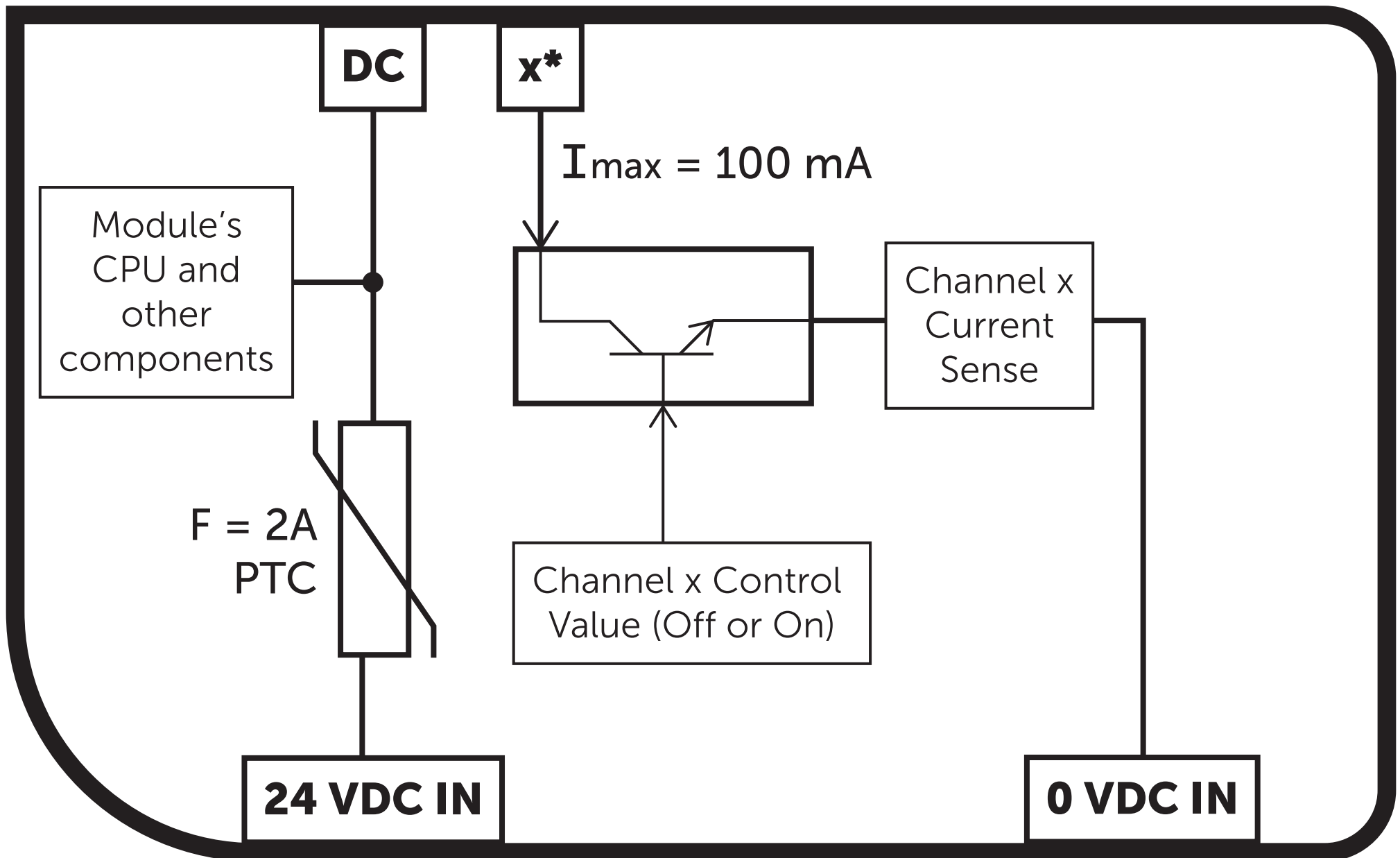
TxD

RxD

FdxCompact



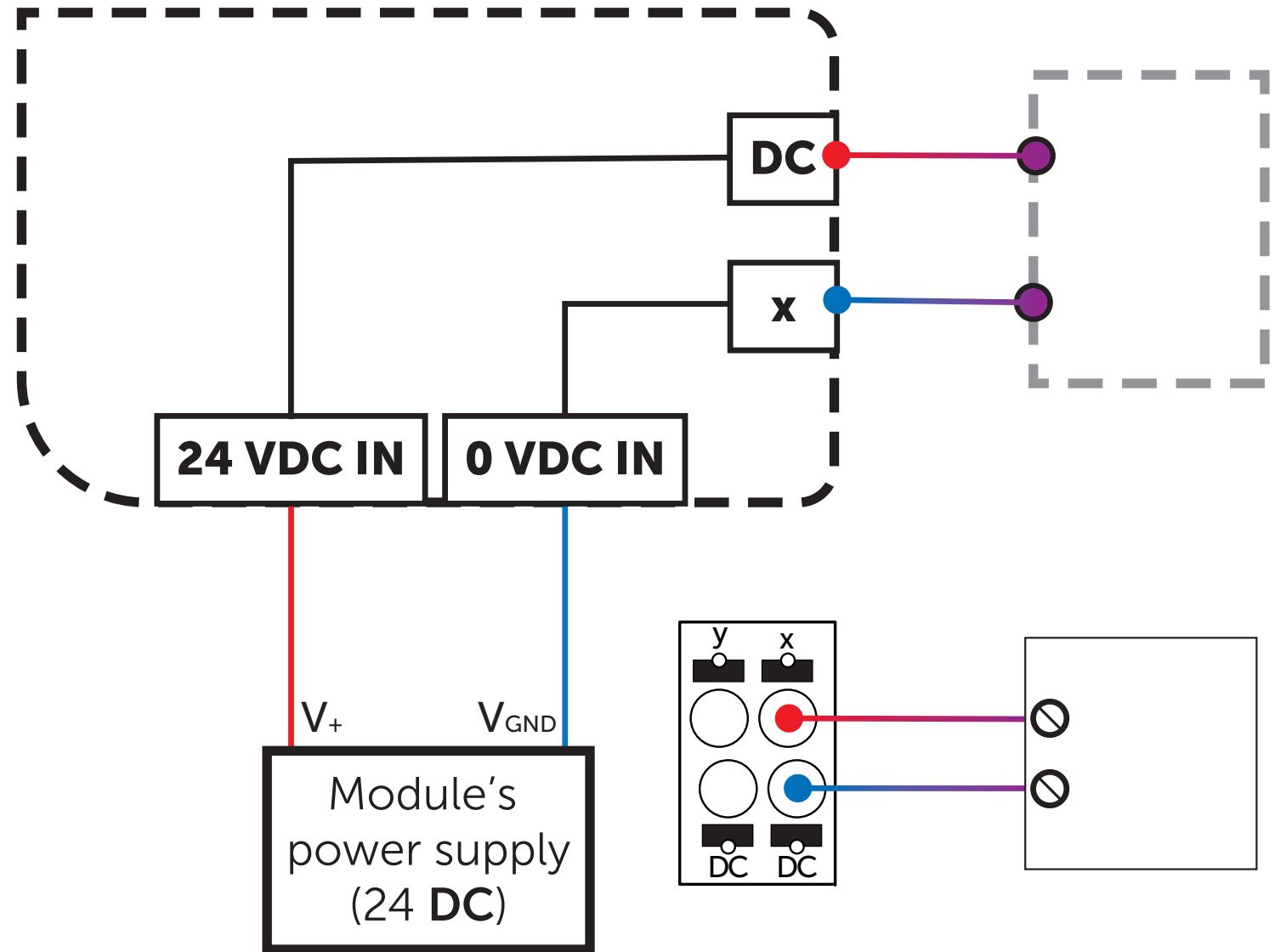
DOOC-16-C module's internal wiring and logic setup



*x = 1..16

DOOC-16-C Load connection

Operating voltage from the module's DC-connectors

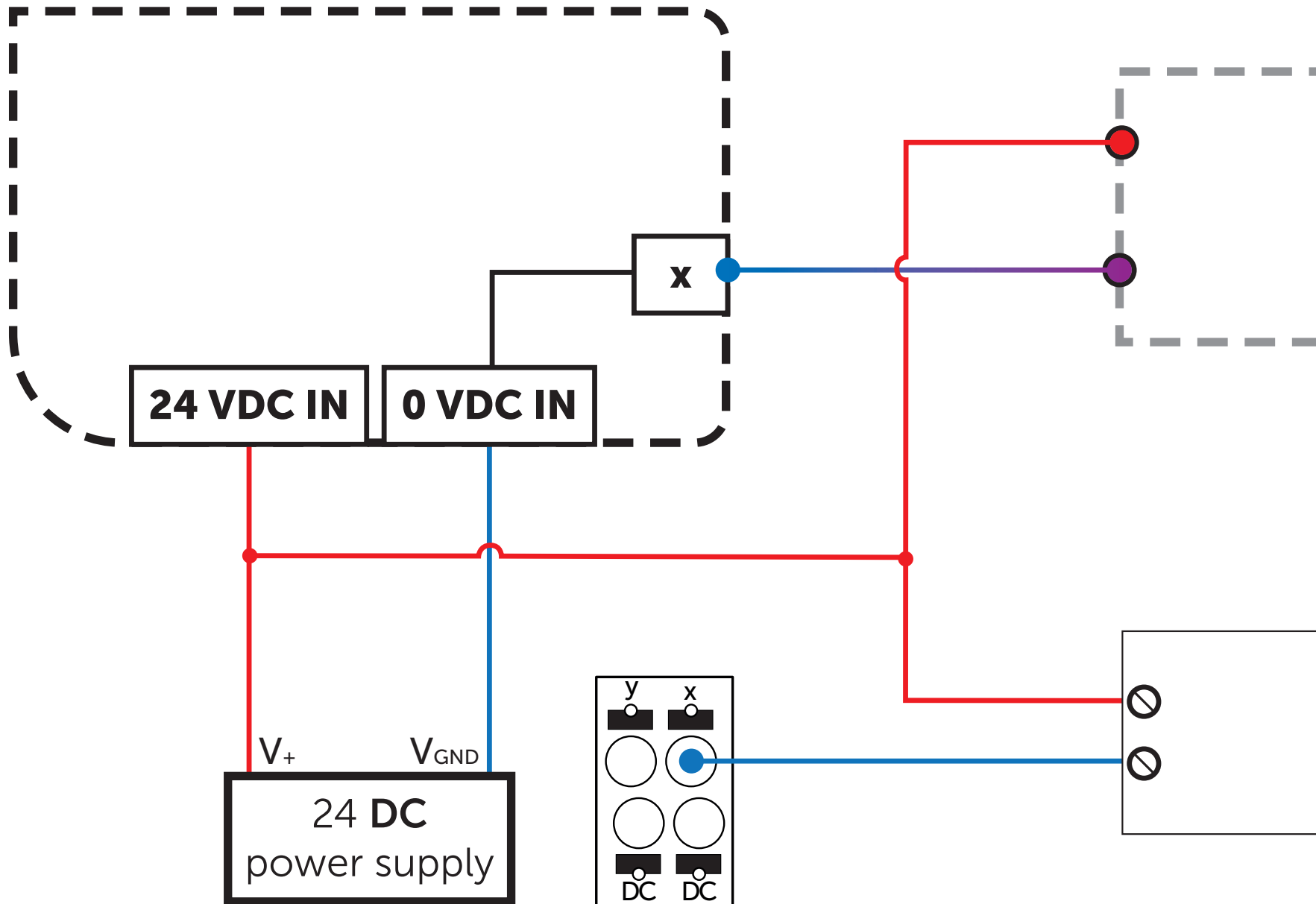


This way of getting the operating voltage for the connected loads is possible, but **NOT recommended!**

If you do draw the loads through the module's power supply, make sure to not draw more than 2A.

DOOC-16-C Load connection (This is the recommended way!)

Operating voltage to the operated device directly from the power supply



TRIAC 8

8

7

6

5

4

3

2

1

RUN

TxD

RxD

FdxCompact

AC V8	AC V7	AC V6	AC V5	AC V4	AC V3	AC V2	AC V1
G0 T8	G0 T7	G0 T6	G0 T5	G0 T4	G0 T3	G0 T2	G0 T1



Modbus B (+)

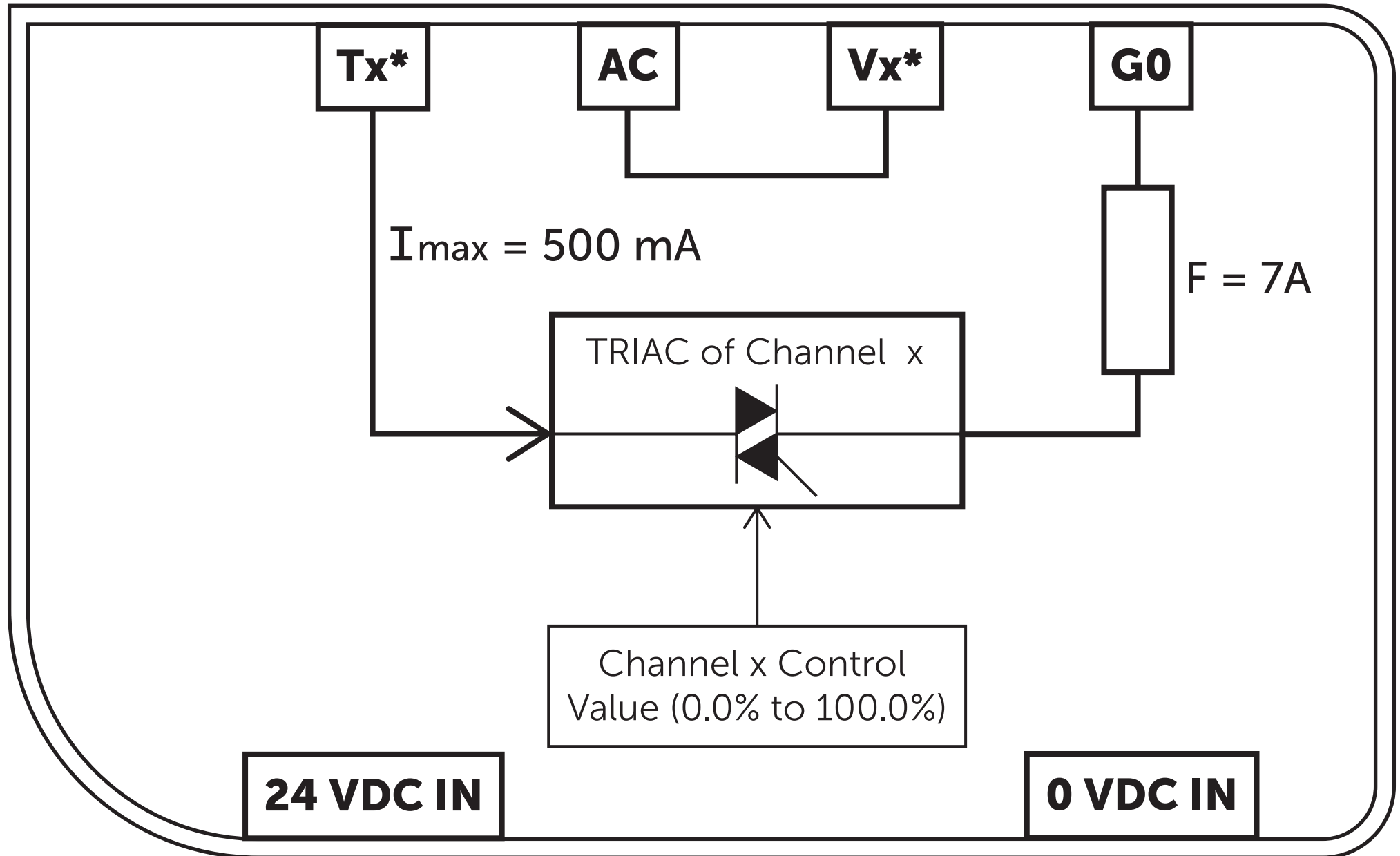
Modbus A (-)

0 VDC IN

0 VDC IN

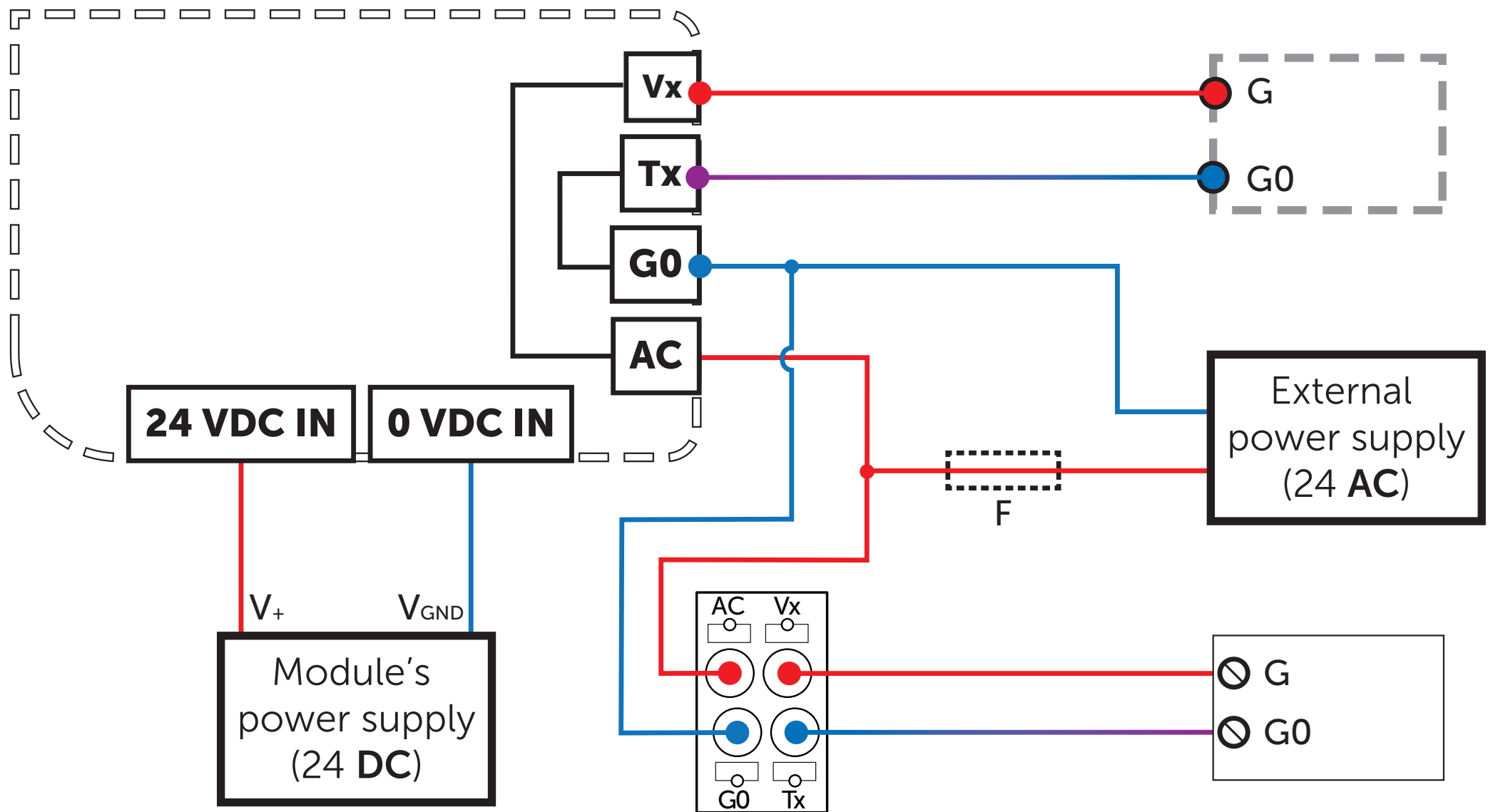
24 VDC IN

TRIAC-8-C module's internal wiring and logic setup



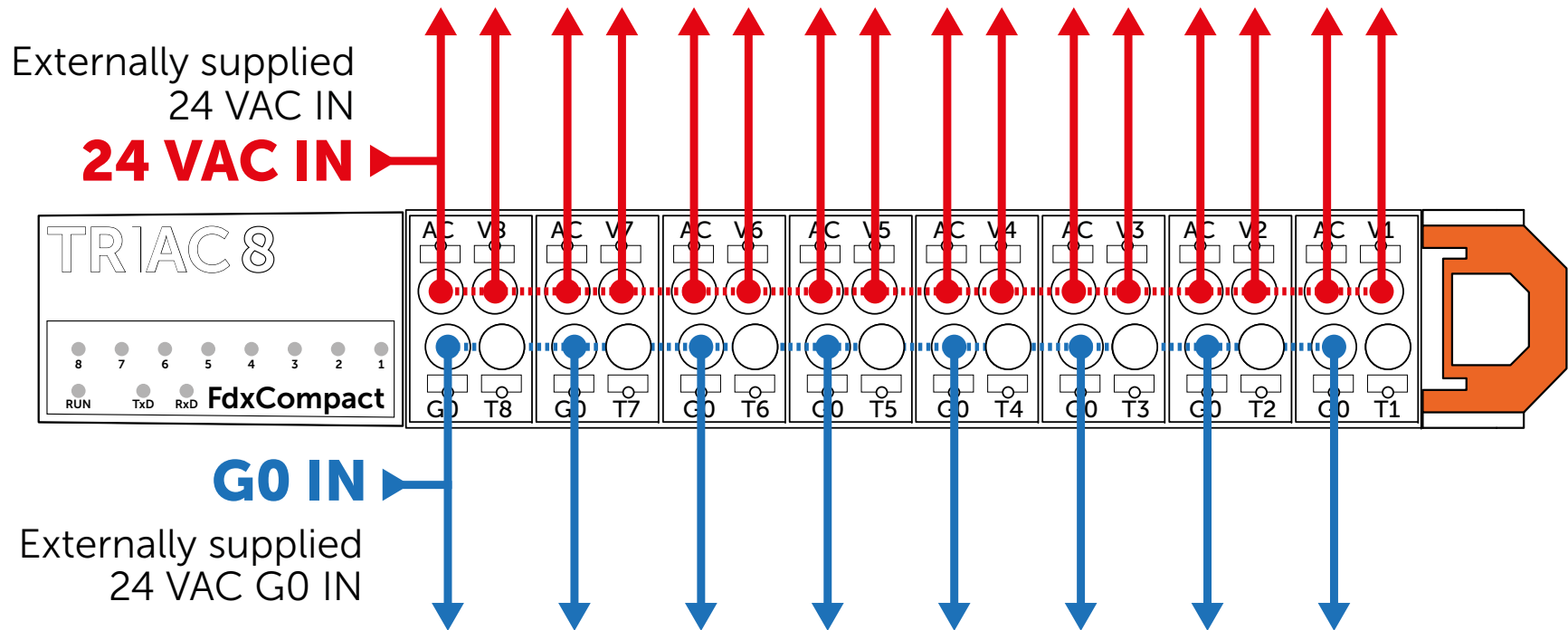
*x = 1..8

TRIAC-8-C



TRIAC-8-C

External 24 VAC power is required for operation !



Connect an external 24 VAC power supply to one of the AC/G0 connectors. This provides the 24 VAC to all other AC/G0 connectors, AND to the Vx/Tx connectors.

