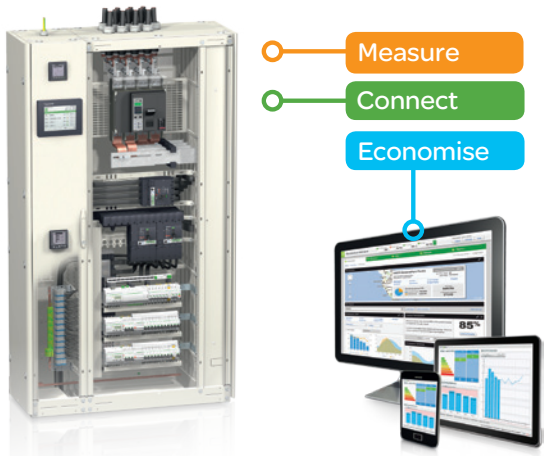
Smart Panels

Data acquisition with Acti 9, Compact, Masterpact



Tested
Validated
Documented
Architectures

Schneider Electric

Energy management has never been simpler

Smart Panels connect you to energy savings

This guide will help you to determine exactly how to equip the circuit breakers and other protective devices in the Acti9, Compact and Masterpact ranges, depending on the information to be acquired from each of them.

This guide supplements the other Smart Panel design and construction documents.

Architecture guide

Data acquisition guide

Catalogue

Thank you for choosing Schneider Electric's exclusive Smart Panels, which can be fully connected directly to the company IT network, to help your customers improve their energy performance.

Smart Panels digitized by Enerlin'X

1 Measure

Embedded and stand-alone metering & control capabilities

2 Connect

> Integrated communication interfaces

> Ready to connect to energy management platforms

3 Economise

> Data-driven energy efficiency actions

> Real time monitoring and control

> Access to energy and site information through on-line services

5 types of information

To determine the equipment required according to the information which will be useful to your customer, we can classify this information by making an analogy with a car.

Measurement

This is the speed indicator. Your customer has a real-time indication of their electricity consumption and can track its rise or fall.

Availability

These are the warning lights for the battery, tyre wear, or even the fuel gauge. If one of these lights up, a maintenance operation is required.

Metering

This is the car's odometer.

Here, the circuit breakers indicate the electricity consumption.

Quality

This is the rev counter. For the same electricity consumption, the installation may be over-used or under-used just like an engine over-revving or under-revving.

Controls

These are the steering wheel levers. Just like the lights, horn, indicators, etc., signals from this control will switch the loads on or off.

Two ways of accessing information

> Directly via the front panel

> Remotely via the company IT network.

Architectures

Acti 9

Data acquisition

Metering	Measurement	Quality	Availability (states/statuses)	Control	Page no.
			•		5
				•	6
	•				7

Compact NSX 100-630

Data acquisition

Metering	Measurement	Quality	Availability (states/statuses)	Control	Page no.
	•				8 - 9
	•		•		10 - 11
	•		•	•	12 - 13
			•	•	14 - 15

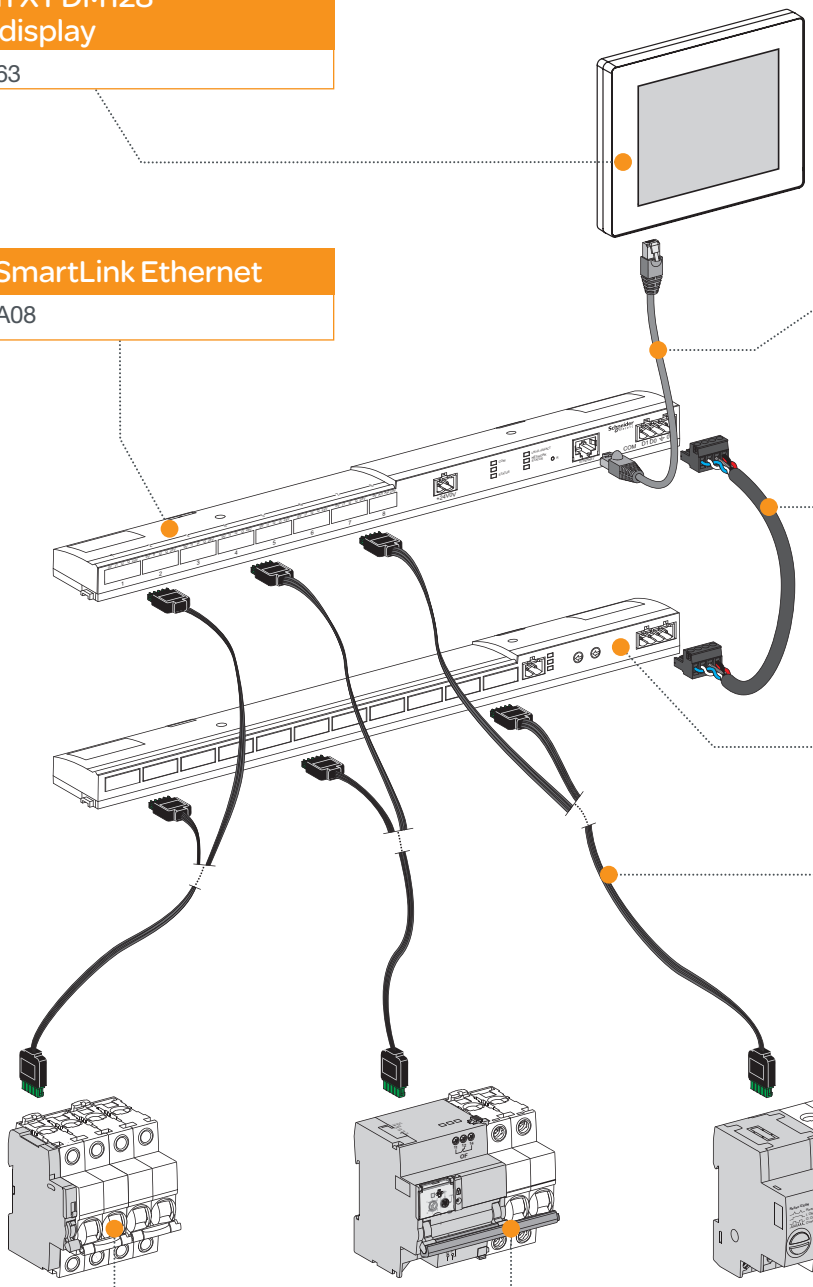
Compact NS
Masterpact NT/NW

Data acquisition

Metering	Measurement	Quality	Availability (states/statuses)	Control	Page no.
	•				18 - 19
	•			•	20 - 21
	•				22 - 23
	•			•	24 - 25

Availability

Modular equipment, front panel display and remote view



Enerlin'X FDM128 panel display
LV434063

RJ45 cable
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

Acti9 SmartLink Ethernet
A9XMEA08

TSX CSA cable
TSXCSA100 (L = 100 mm)
TSXCSA200 (L = 200 mm)
TSXCSA500 (L = 500 mm)

Acti9 SmartLink
A9XMSB11

Prefabricated cables 2 x TI24 connectors
A9XCAL06 (L = 0.1 m, Quantity 6)
A9XCAM06 (L = 0.16 m, Quantity 6)
A9XCAS06 (L = 0.87 m, Quantity 6)
A9XCAH06 (L = 0.85 m, Quantity 6)

iOF + SD24 auxiliary for Acti 9 circuit breakers and differentials
A9A26897

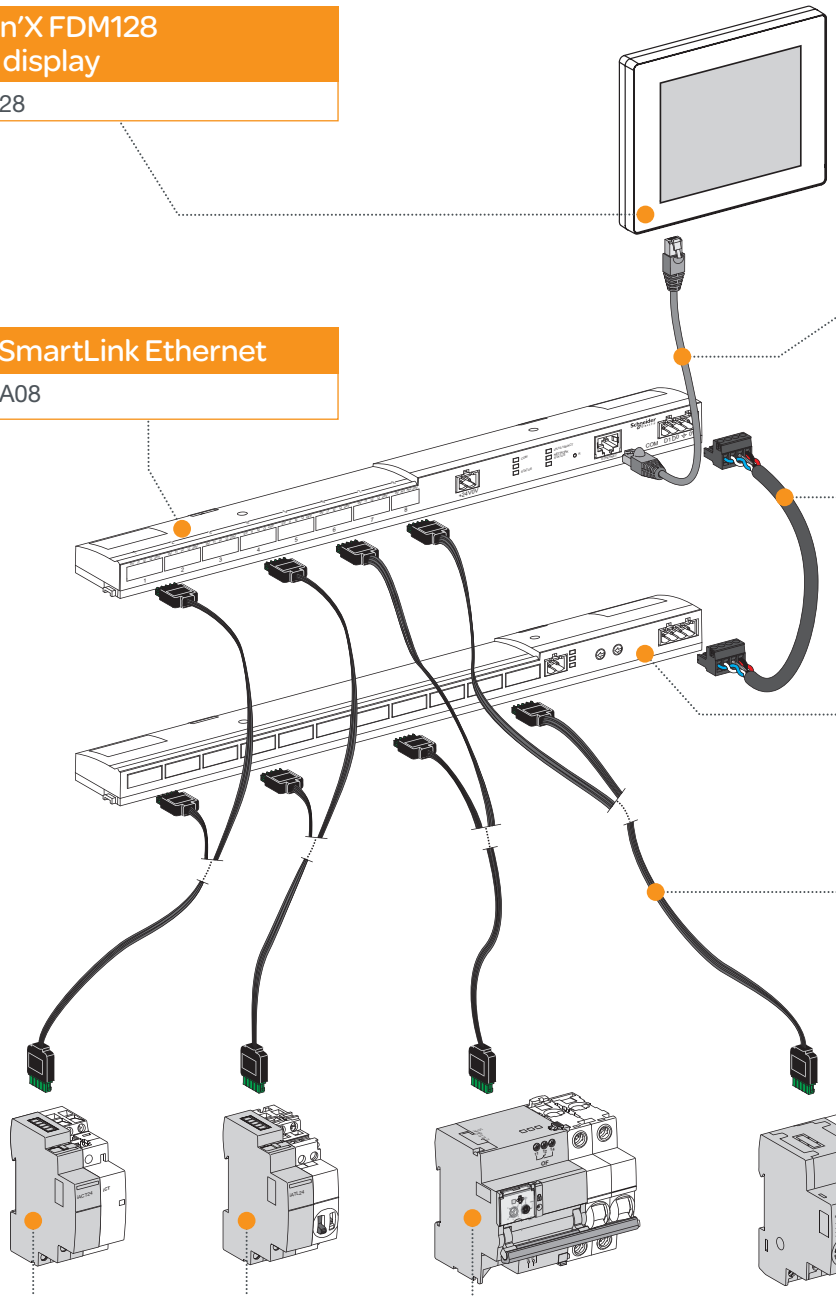
OF+SD24 auxiliary switch for Clario circuit breakers and differentials
A9N26899

Acti9, remote-controlled RCA 230 V for iC60 breaker
A9C70122 (1P, 1P+N, 2P)
A9C70124 (3P, 4P)

Acti9 Reflex: built-in remote-controlled breaker
A961210 (2P, 10 A)
⋮
A964263 (4P, 63 A)

Control

Modular equipment, front panel display and remote view



Enerlin'X FDM128 panel display
LV434128

RJ45 cable
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

Acti9 SmartLink Ethernet
A9XMEA08

TSX CSA cable
TSXCSA100 (L = 100 mm)
TSXCSA200 (L = 200 mm)
TSXCSA500 (L = 500 mm)

Acti9 SmartLink Modbus RS485
A9XMSB11

Prefabricated cables 2 x TI24 connectors
A9XCAL06 (L = 0.1 m, Quantity 6)
A9XCAM06 (L = 0.16 m, Quantity 6)
A9XCAS06 (L = 0.87 m, Quantity 6)
A9XCAH06 (L = 0.85 m, Quantity 6)

Acti9 iATL24 auxiliary for ITL remote control switch
A9A26897

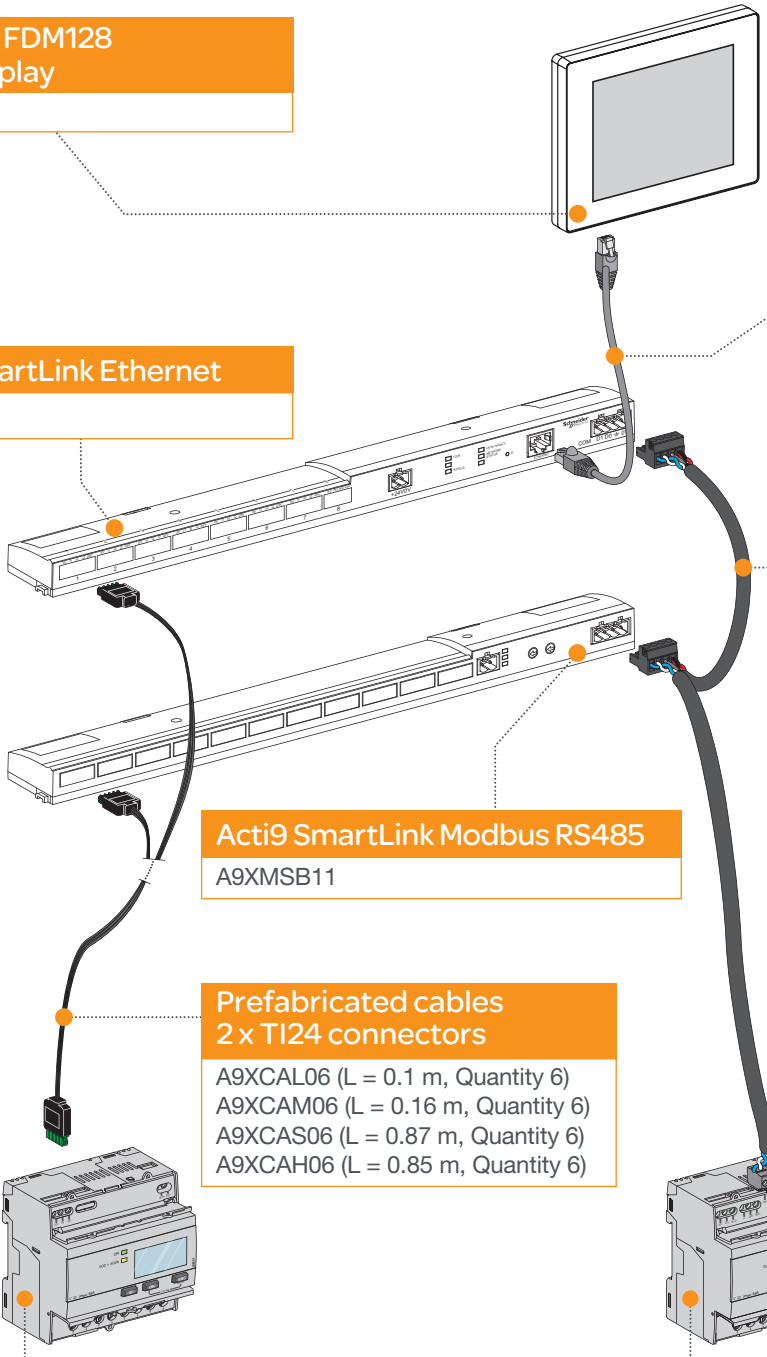
Acti9 iACT24 auxiliary for ICT switch
A9C15924

Acti9, remote-controlled RCA 230 V for iC60 breaker
A9C70122 (1P, 1P+N, 2P)
A9C70124 (3P, 4P)

Acti9 Reflex: built-in remote-controlled breaker
A961210 (2P, 10 A)
⋮
A964263 (4P, 63 A)

Metering, Measurement, Quality

Modular equipment, front panel display and remote view



Enerlin'X FDM128 panel display
LV434128

RJ45 cable
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Acti9 SmartLink Ethernet
A9XMEA08

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Acti9 SmartLink Modbus RS485
A9XMSB11

Prefabricated cables 2 x TI24 connectors
A9XCAL06 (L = 0.1 m, Quantity 6)
A9XCAM06 (L = 0.16 m, Quantity 6)
A9XCAS06 (L = 0.87 m, Quantity 6)
A9XCAH06 (L = 0.85 m, Quantity 6)

Acti9 iEM3x10 kWh meter with partial counter, pulse output, MID certified
iEM3110: direct connected 63 A
iEM32110: 5 A transformer connected
iEM33110: direct connected 125 A

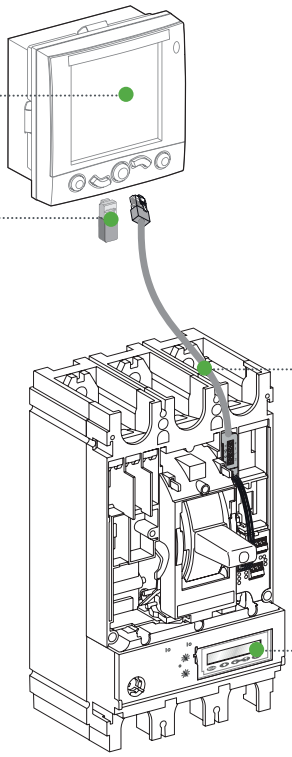
Acti9 iEM3x50, iEM3x55 kWh meter with partial counter current voltage and power mesurements Modbus RS485
iEM3150: direct connected 63 A
iEM3250: 5 A transformer connected
iEM3350: direct connected 125 A

Metering, Measurement, Quality

Front panel display

FDM121 panel display
TRV00121

ULP line terminations (pack of 10)
TRV00880

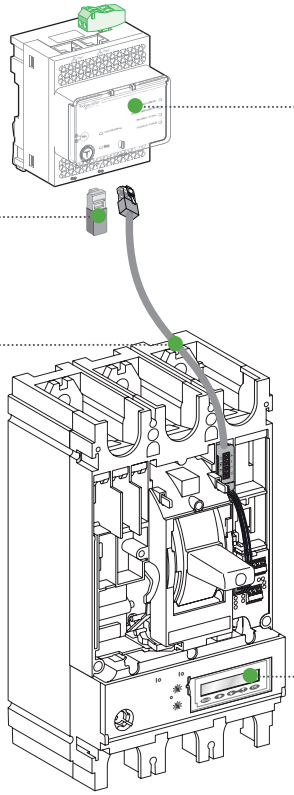


NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

Micrologic E circuit breaker control unit

Remote view

ULP line terminations (pack of 10)
TRV00880



Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

Micrologic E circuit breaker control unit

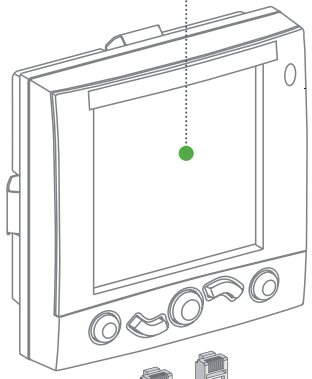
Metering, Measurement, Quality

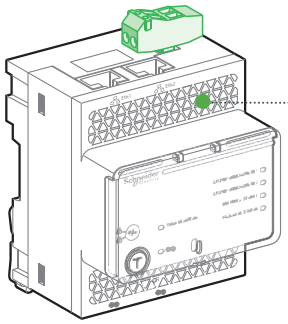
Front panel display and remote view

TRV00121

Communication interface (optional)

TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)



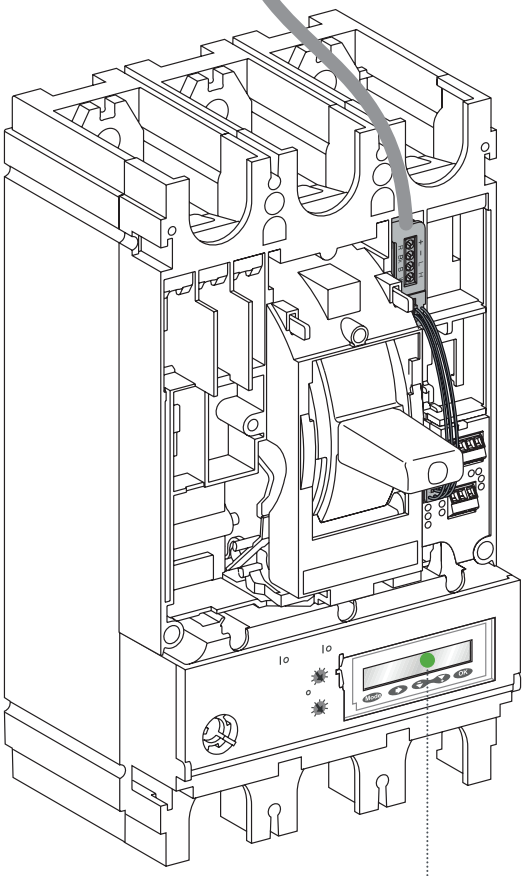


NSX cable (optional)

LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

ULP line terminations (pack of 10)

TRV00880



ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

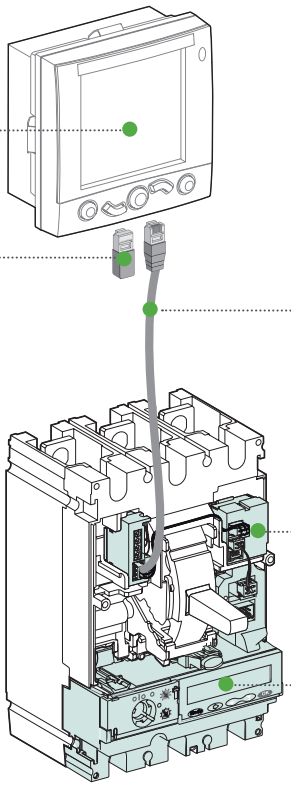
Micrologic E circuit breaker control unit

Metering, Measurement, Quality and Availability

Front panel display

FDM121 panel display
TRV00121

ULP line terminations (pack of 10)
TRV00880



NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

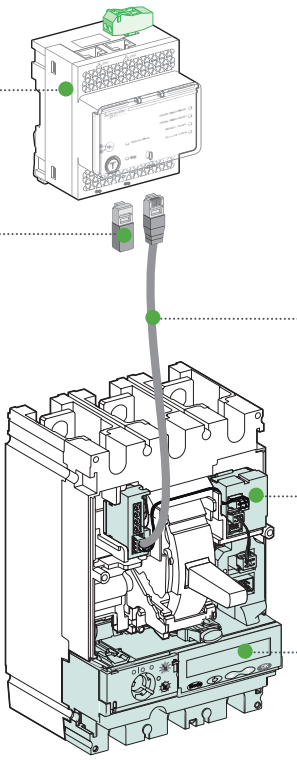
BSCM module
LV434205

Micrologic E circuit breaker control unit

Remote view

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP line terminations (pack of 10)
TRV00880



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LV434202 (L = 3 m)

BSCM module
LV434205

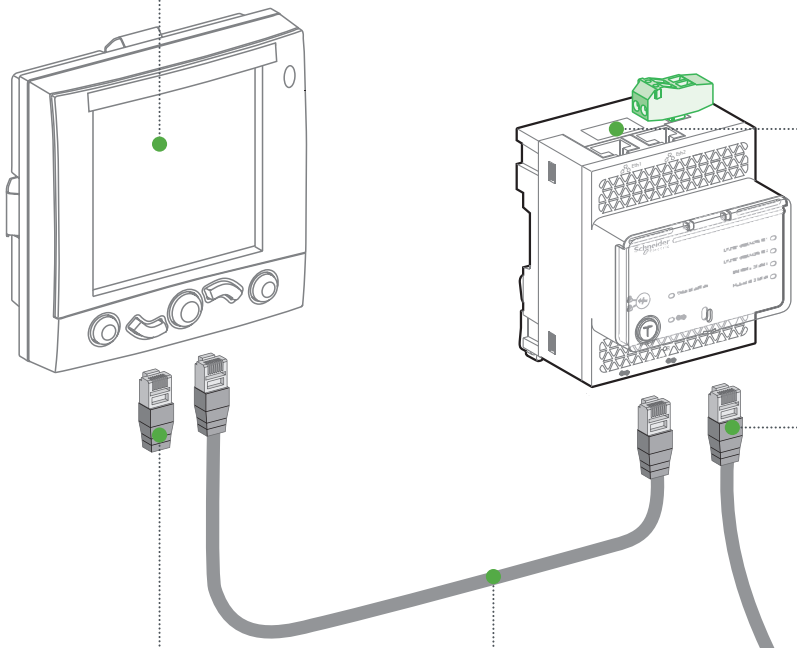
Micrologic E circuit breaker control unit

Metering, Measurement, Quality and Availability

Front panel display and remote view

FDM121 panel display
TRV00121

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)



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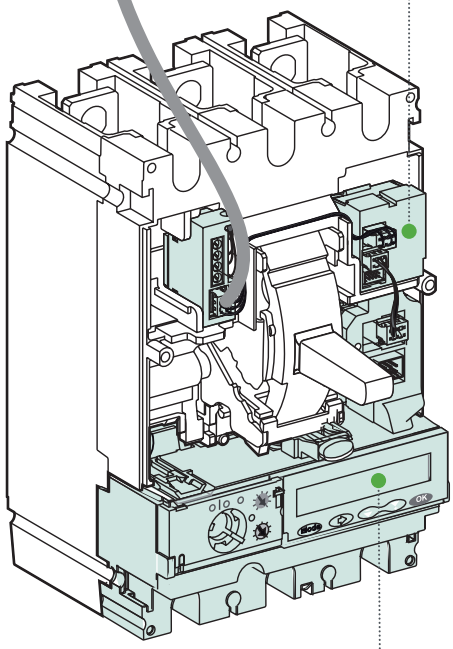
BSCM module
LV434205

ULP line terminations (pack of 10)
TRV00880



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TRV00803 (L = 0.3 m, Quantity 10)
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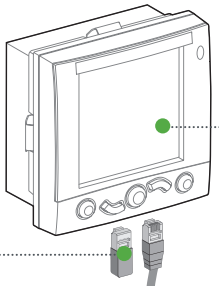
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

Micrologic E circuit breaker control unit

Metering, Measurement, Quality, Availability and Control

Front panel display

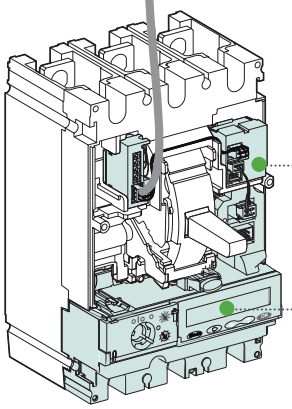


FDM121 panel display
TRV00121

ULP line terminations (pack of 10)
TRV00880

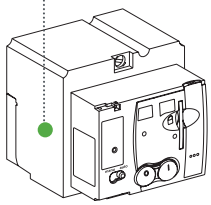
NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

220/240 VCA smart remote control
LV429441 (MTc NSX100/160)
LV431549 (MTc NSX250)
LV432652 (MTc NSX400/630)

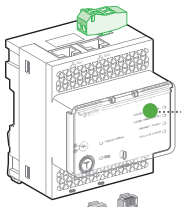


BSCM module
LV434205

Micrologic E circuit breaker control unit



Remote view



Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP line terminations (pack of 10)
TRV00880

220/240 VCA smart remote control
LV429441 (MTc NSX100/160)
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NSX cable (optional)
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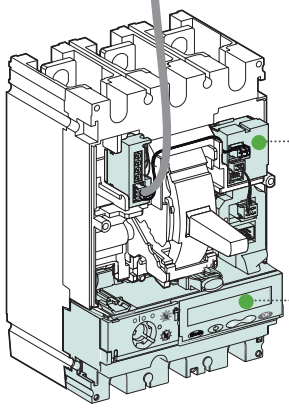
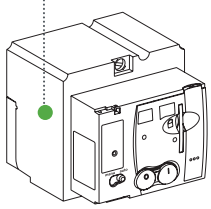


BSCM module
LV434205

Micrologic E circuit breaker control unit



Metering, Measurement, Quality, Availability and Control

Front panel display and remote view

FDM121 panel display
TRV00121

ULP RJ45 cables (optional)
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
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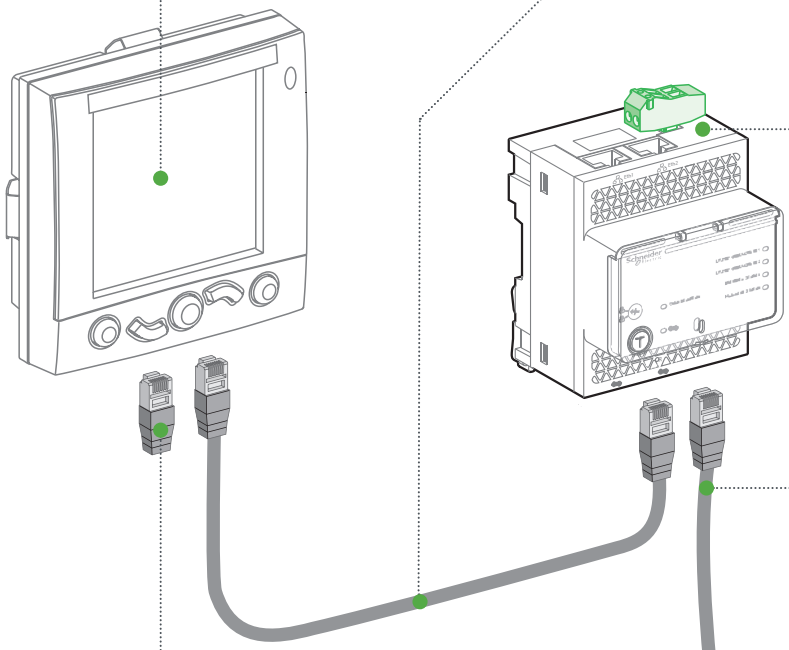
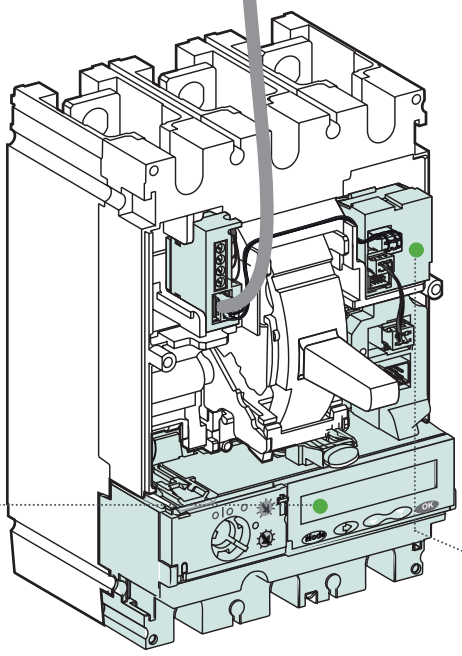
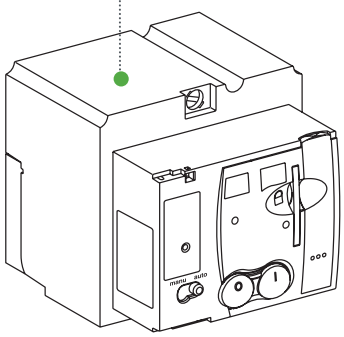


NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

220/240 VCA smart remote control
LV429441 (MTc NSX100/160)
LV431549 (MTc NSX250)
LV432652 (MTc NSX400/630)

ULP line terminations (pack of 10)
TRV00880



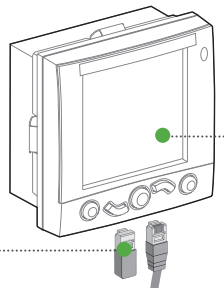


Micrologic E circuit breaker control unit

BSCM module
LV434205

Availability (states/statuses) and Control

Front panel display



FDM121 panel display
TRV00121

ULP line terminations (pack of 10)
TRV00880

NSX cable (optional)
LV434200 (L = 0.35 m)
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220/240 VCA smart remote control
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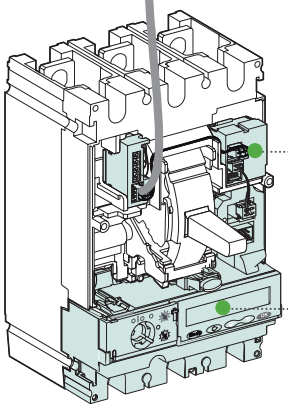
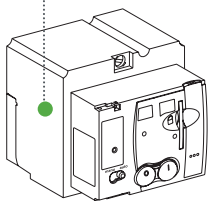
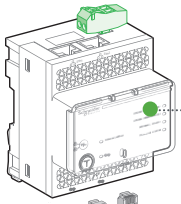


BSCM module
LV434205



For any circuit breaker control unit
TMD, TMG, MA, Micrologic

Remote view



Communication interface (optional)
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ULP line terminations (pack of 10)
TRV00880

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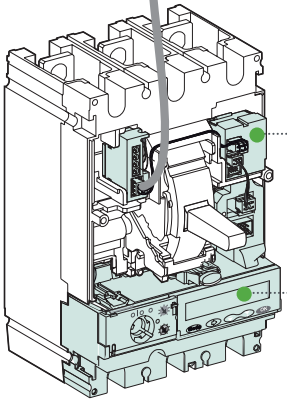
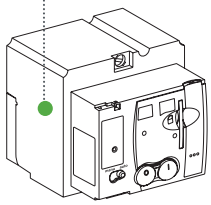
LV434202 (L = 3 m)



BSCM module
LV434205



For any circuit breaker control unit
TMD, TMG, MA, Micrologic

Availability (states/statuses) and Control

Front panel display and remote view

FDM121 panel display
TRV00121

ULP RJ45 cables (optional)
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

Communication interface (optional)
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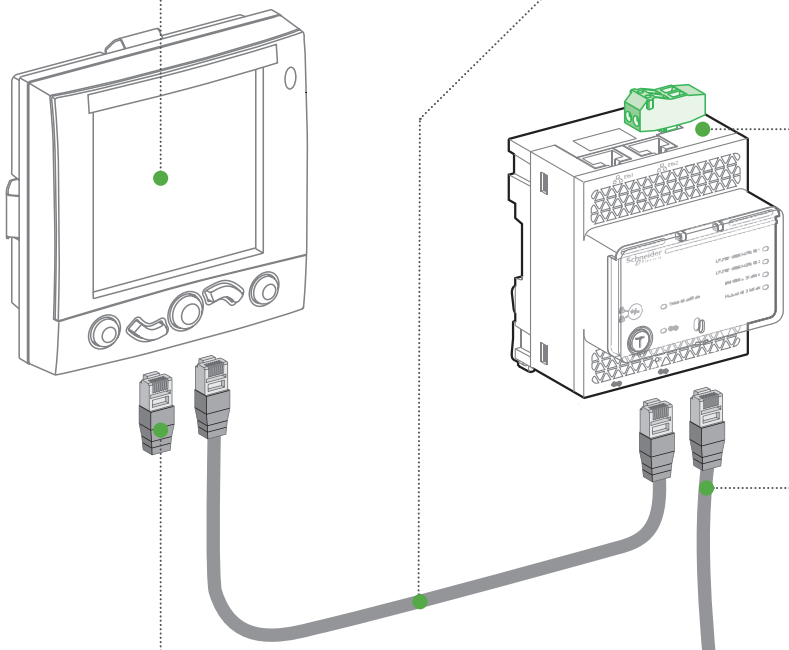
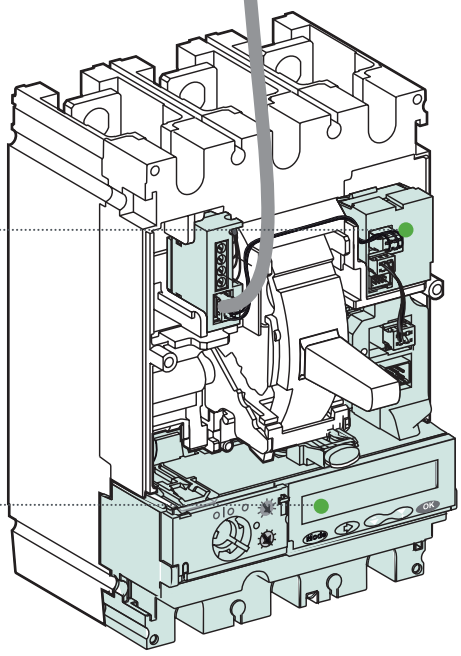
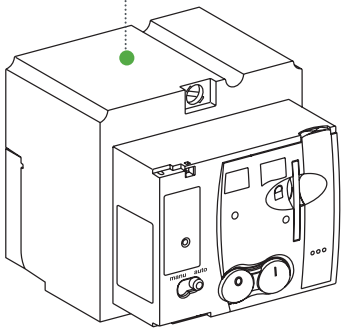


NSX cable (optional)
LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

ULP line terminations (pack of 10)
TRV00880

220/240 VCA smart remote control
LV429441 (MTc NSX100/160)
LV431549 (MTc NSX250)
LV432652 (MTc NSX400/630)



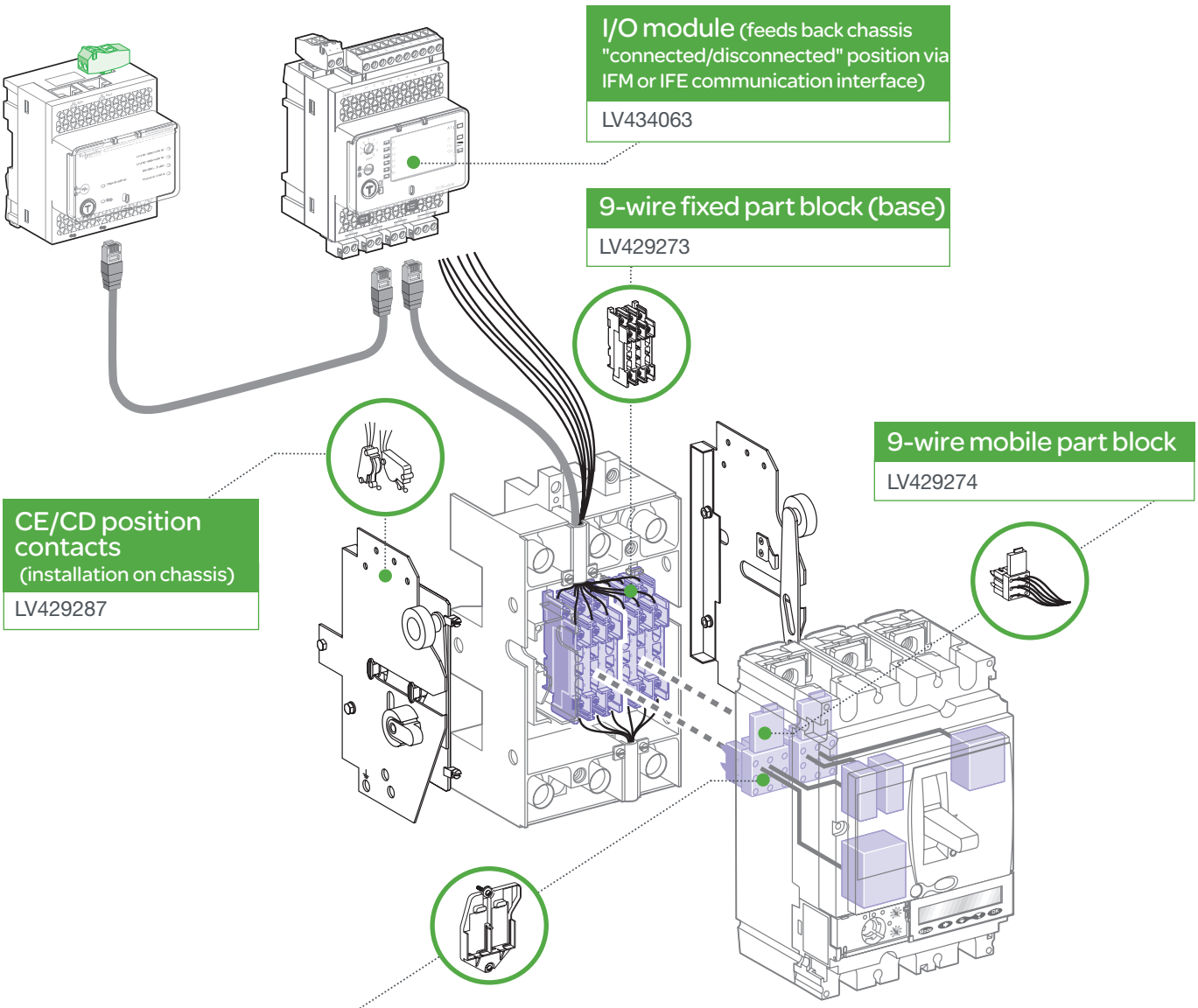


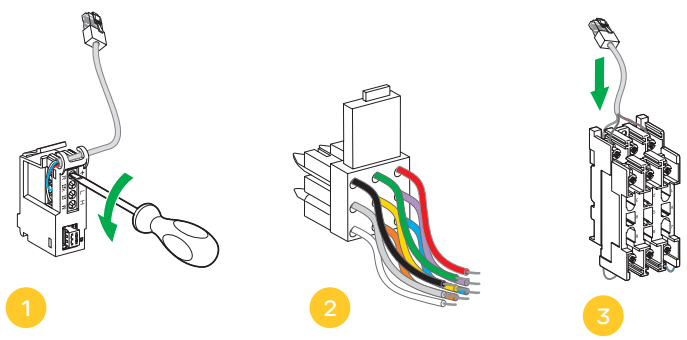
BSCM module
LV434205

For any circuit breaker control unit
TMD, TMG, MA, Micrologic

Drawout device (base or chassis)

List of references

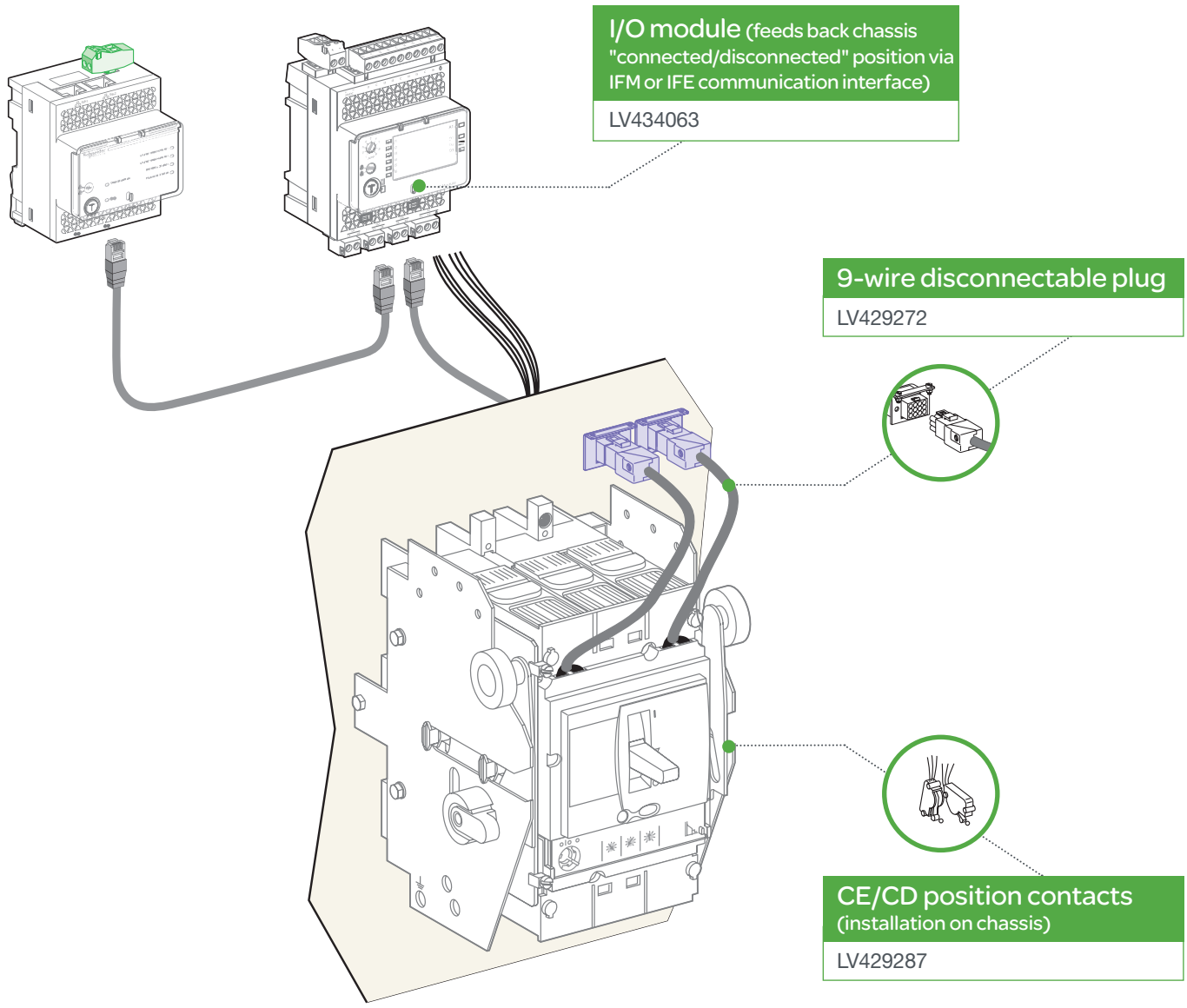




1. Disconnect the NSX cable from its terminal
2. Connect the ULP RJ45 cable to the fixed part block (base)
3. Connect the 4 wires of the mobile part block to the terminal

Drawout device (base or chassis)

List of references



I/O module (feeds back chassis "connected/disconnected" position via IFM or IFE communication interface)

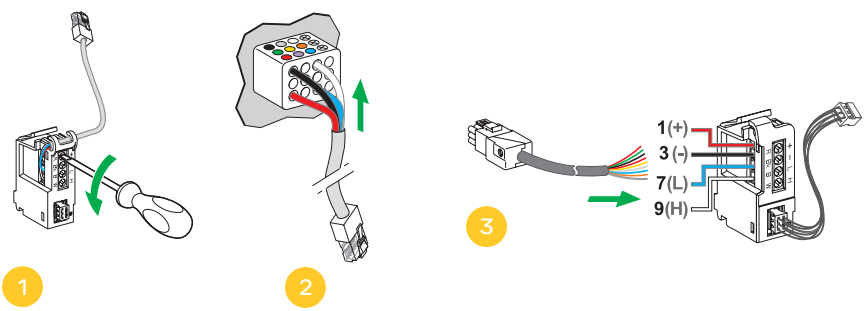
LV434063

9-wire disconnectable plug

LV429272

CE/CD position contacts (installation on chassis)

LV429287



1. Disconnect the NSX cable from its terminal
2. Connect the ULP RJ45 cable to the fixed part block
3. Connect 4 wires on the disconnectable plug to the terminal

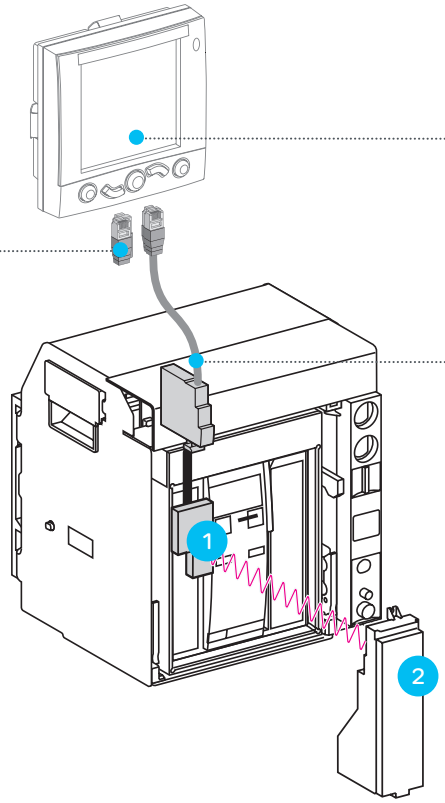
Metering, Measurement, Quality and Availability

Fixed device, front panel display

ULP line terminations (pack of 10)
TRV00880

FDM121 panel display
TRV00121

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)



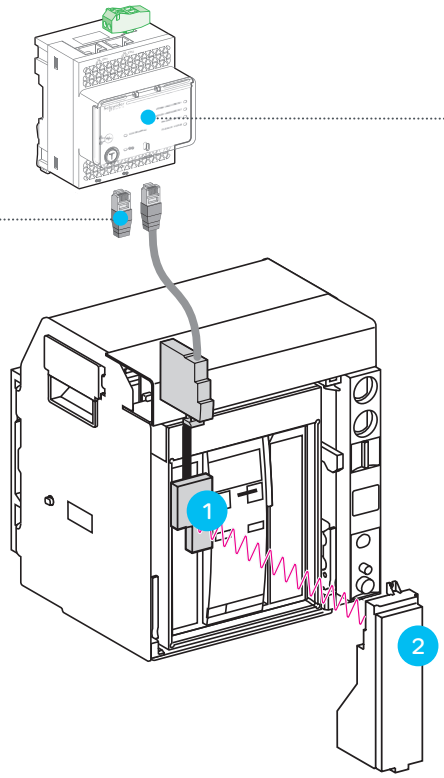
1. Device communication module (BCM ULP)*
2. Micrologic E/P/H* circuit breaker control unit

*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

Fixed device, remote view

ULP line terminations (pack of 10)
TRV00880

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)



1. Device communication module (BCM ULP)*
2. Micrologic E/P/H* circuit breaker control unit

*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

Metering, Measurement, Quality and Availability

Fixed device, front panel display and remote view

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

FDM121 panel display

TRV00121

Communication interface (optional)

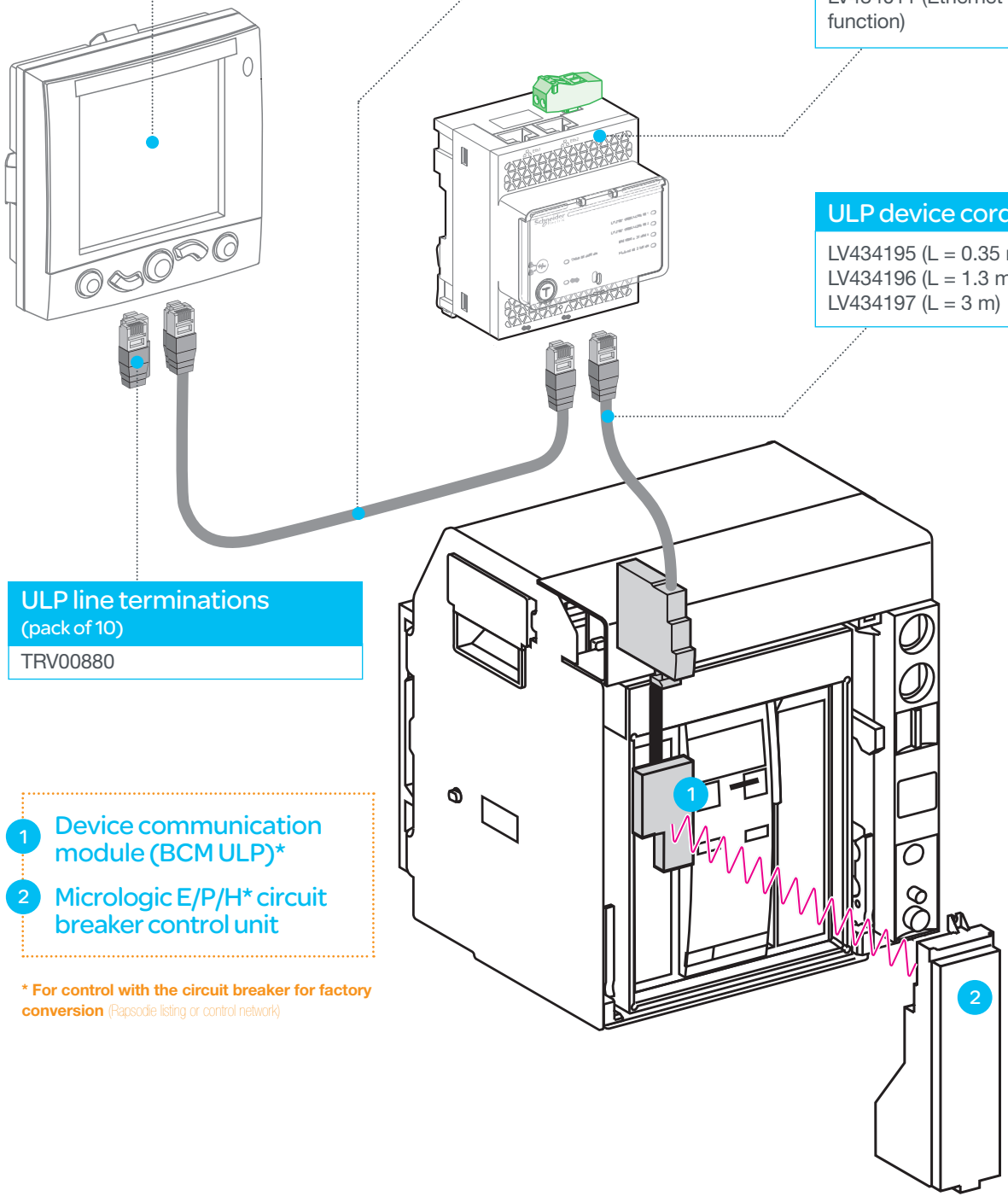
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP device cord (optional)

LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP line terminations (pack of 10)

TRV00880



1. Device communication module (BCM ULP)*
2. Micrologic E/P/H* circuit breaker control unit

*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

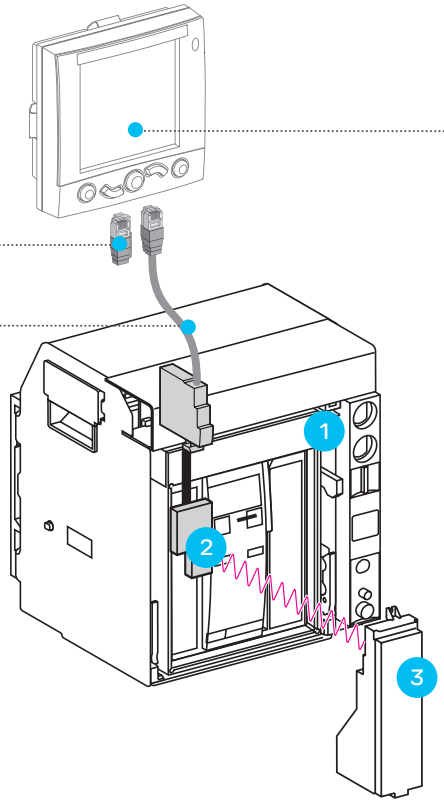
Metering, Measurement, Quality, Availability and Control

Fixed device, front panel display

ULP line terminations (pack of 10)
TRV00880

FDM121 panel display
TRV00121

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)



1. Smart electrical control*
2. Device communication module (BCM ULP)*
3. Micrologic E/P/H* circuit breaker control unit

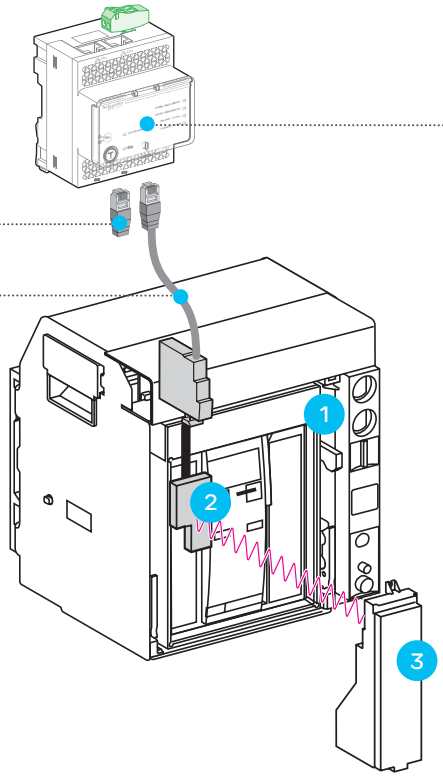
*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

Fixed device, remote view

ULP line terminations (pack of 10)
TRV00880

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)



1. Smart electrical control*
2. Device communication module (BCM ULP)*
3. Micrologic E/P/H* circuit breaker control unit

*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

Metering, Measurement, Quality, Availability and Control

Fixed device, front panel display and remote view

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

FDM121 panel display

TRV00121

Communication interface (optional)

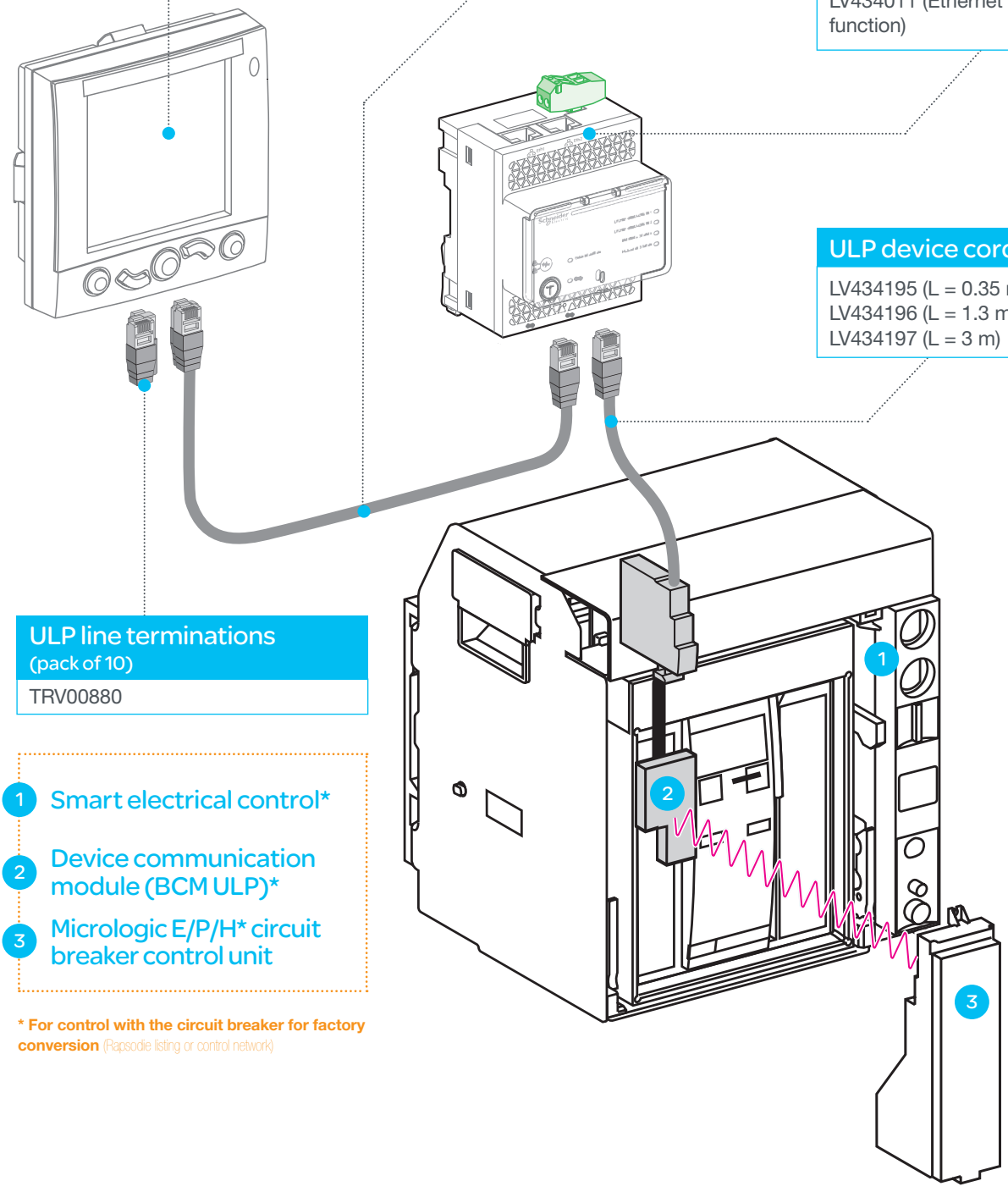
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP device cord (optional)

LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP line terminations (pack of 10)

TRV00880



1. Smart electrical control*
2. Device communication module (BCM ULP)*
3. Micrologic E/P/H* circuit breaker control unit

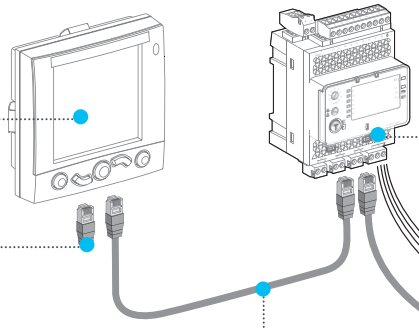
*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

Metering, Measurement, Quality and Availability

Drawout device, front panel display

FDM121 panel display
TRV00121

ULP line terminations (pack of 10)
TRV00880

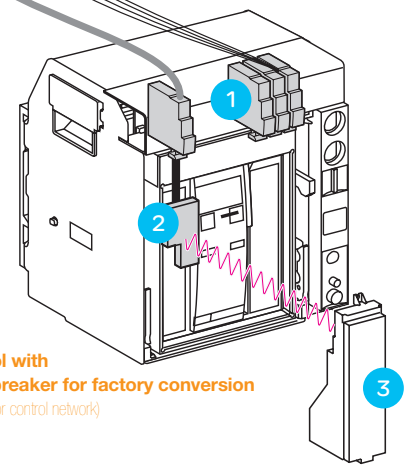


Chassis communication module (I/O module)
LV434063

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)	TRV00820 (L = 2 m, Quantity 5)
TRV00806 (L = 0.6 m, Quantity 10)	TRV00830 (L = 3 m, Quantity 5)
TRV00810 (L = 1 m, Quantity 5)	TRV00850 (L = 5 m, Quantity 1)



1 Chassis position contacts CE/CD/CT*
2 Device communication module (BCM ULP)*
3 Micrologic E/P/H* circuit breaker control unit

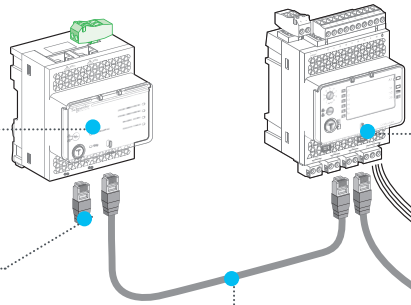
Drawout device option*

* For control with the circuit breaker for factory conversion (Rapsodie listing or control network)

Fixed device, remote view

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

ULP line terminations (pack of 10)
TRV00880

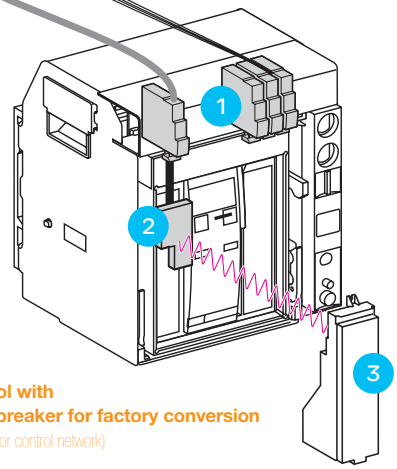


Chassis communication module (I/O module)
LV434063

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)	TRV00820 (L = 2 m, Quantity 5)
TRV00806 (L = 0.6 m, Quantity 10)	TRV00830 (L = 3 m, Quantity 5)
TRV00810 (L = 1 m, Quantity 5)	TRV00850 (L = 5 m, Quantity 1)



1 Chassis position contacts CE/CD/CT*
2 Device communication module (BCM ULP)*
3 Micrologic E/P/H* circuit breaker control unit

Drawout device option*

* For control with the circuit breaker for factory conversion (Rapsodie listing or control network)

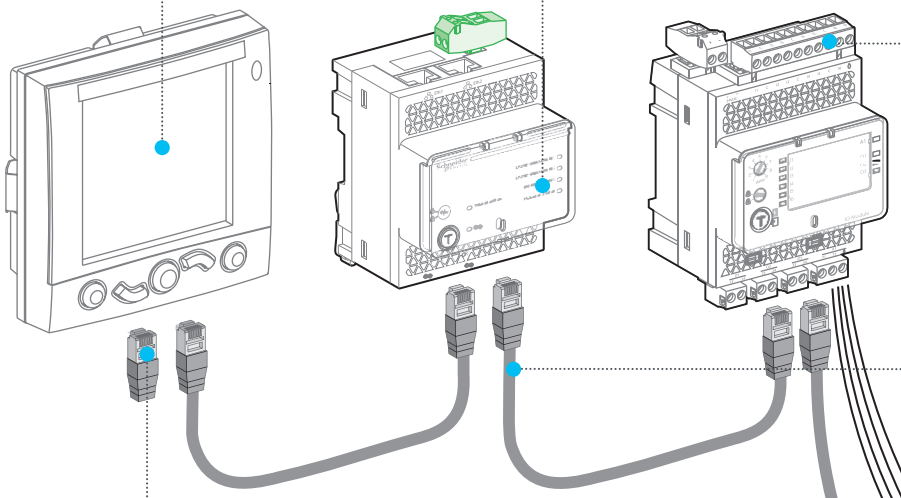
Metering, Measurement, Quality and Availability

Drawout device, front panel display and remote view

FDM121 panel display
TRV00121

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

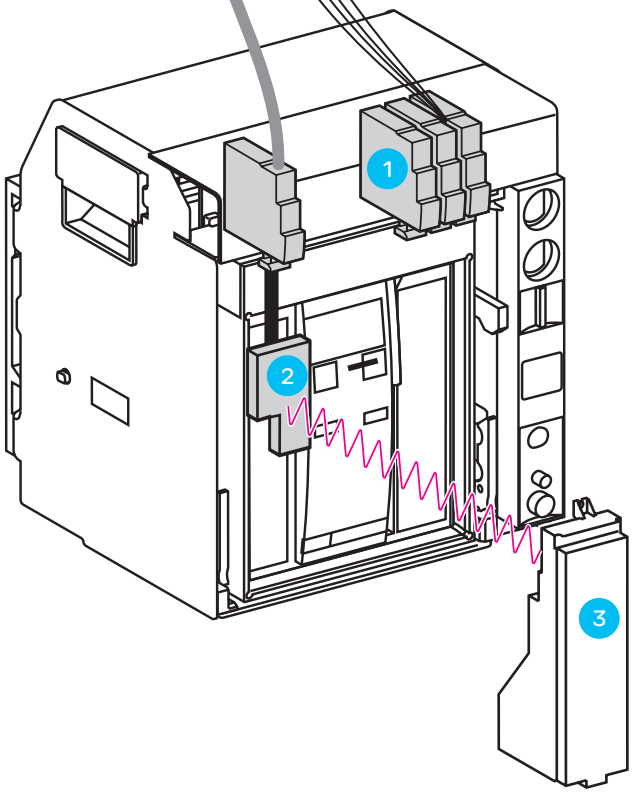
Chassis communication module (I/O module)
LV434063



ULP RJ45 cables (optional)
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP line terminations (pack of 10)
TRV00880



1. Chassis position contacts CE/CD/CT*
2. Device communication module (BCM ULP)*
3. Micrologic E/P/H* circuit breaker control unit

Drawout device option*

*** For control with the circuit breaker for factory conversion** (Rapsodie listing or control network)

Metering, Measurement, Quality, Availability and Control

Drawout device, front panel display

FDM121 panel display
TRV00121

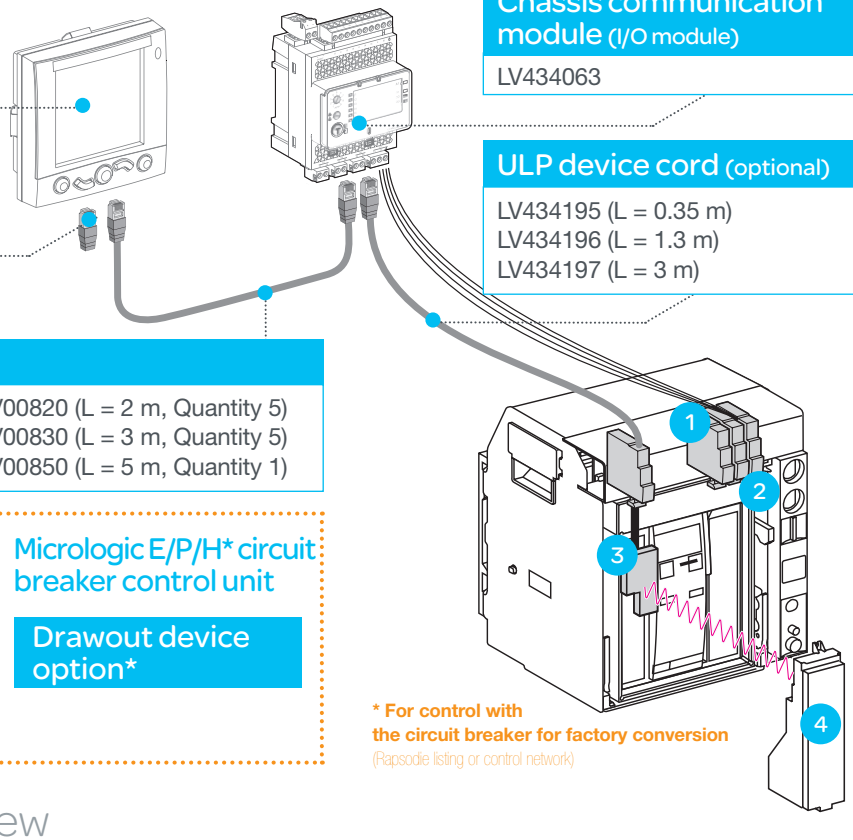
ULP line terminations (pack of 10)
TRV00880

Chassis communication module (I/O module)
LV434063

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)	TRV00820 (L = 2 m, Quantity 5)
TRV00806 (L = 0.6 m, Quantity 10)	TRV00830 (L = 3 m, Quantity 5)
TRV00810 (L = 1 m, Quantity 5)	TRV00850 (L = 5 m, Quantity 1)



1. Chassis position contacts CE/CD/CT*
2. Smart electrical control*
3. Device communication module (BCM ULP)*
4. Micrologic E/P/H* circuit breaker control unit

Drawout device option*

* For control with the circuit breaker for factory conversion (Rapsodie listing or control network)

Fixed device, remote view

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

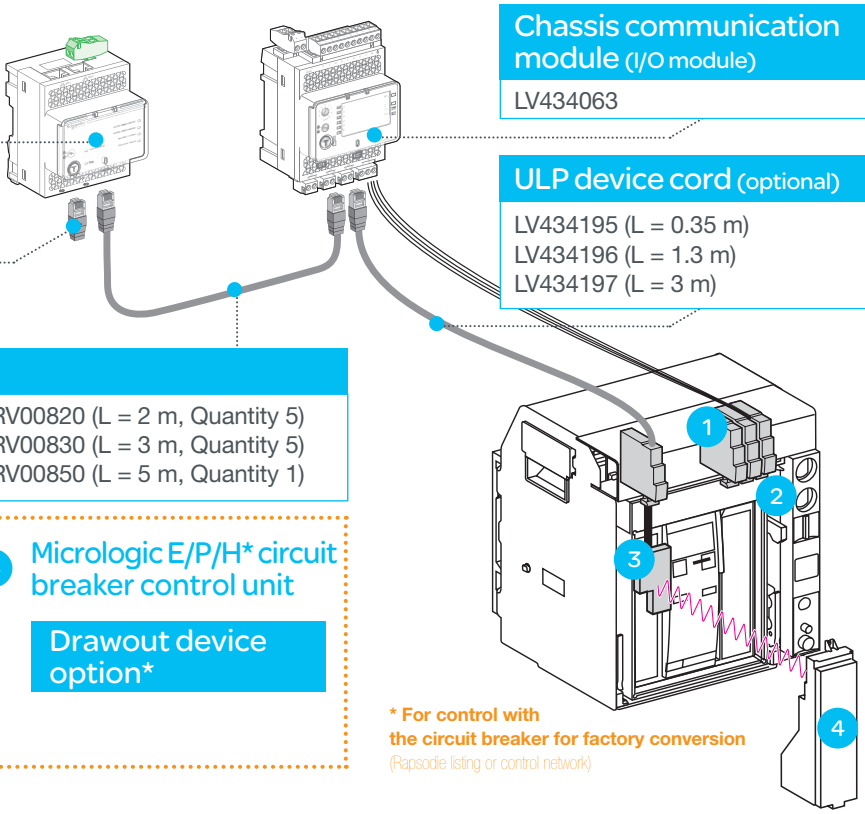
ULP line terminations (pack of 10)
TRV00880

Chassis communication module (I/O module)
LV434063

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP RJ45 cables (optional)

TRV00803 (L = 0.3 m, Quantity 10)	TRV00820 (L = 2 m, Quantity 5)
TRV00806 (L = 0.6 m, Quantity 10)	TRV00830 (L = 3 m, Quantity 5)
TRV00810 (L = 1 m, Quantity 5)	TRV00850 (L = 5 m, Quantity 1)



1. Chassis position contacts CE/CD/CT*
2. Smart electrical control*
3. Device communication module (BCM ULP)*
4. Micrologic E/P/H* circuit breaker control unit

Drawout device option*

* For control with the circuit breaker for factory conversion (Rapsodie listing or control network)

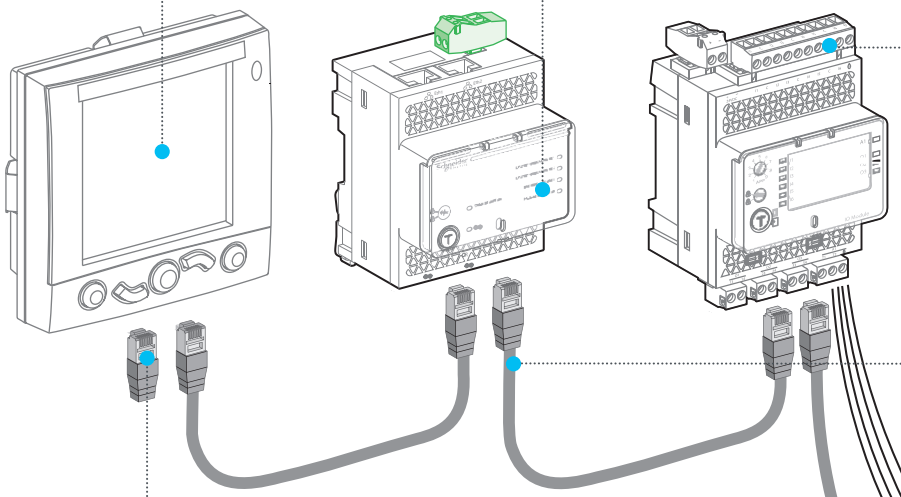
Metering, Measurement, Quality, Availability and Control

Drawout device, front panel display and remote view

FDM121 panel display
TRV00121

Communication interface (optional)
TRV00210 (Modbus RS485 IFM)
LV434010 (Ethernet IFE)
LV434011 (Ethernet IFE + gateway function)

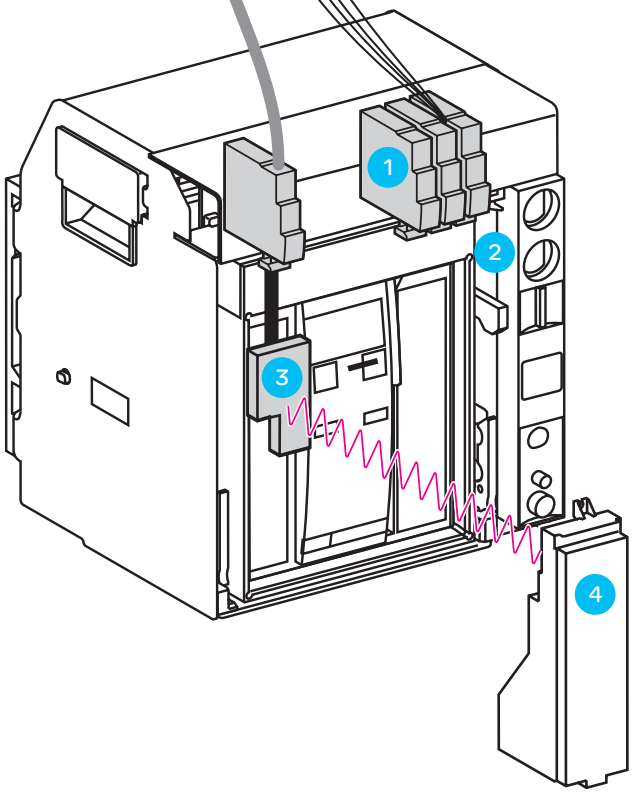
Chassis communication module (I/O module)
LV434063



ULP RJ45 cables (optional)
TRV00803 (L = 0.3 m, Quantity 10)
TRV00806 (L = 0.6 m, Quantity 10)
TRV00810 (L = 1 m, Quantity 5)
TRV00820 (L = 2 m, Quantity 5)
TRV00830 (L = 3 m, Quantity 5)
TRV00850 (L = 5 m, Quantity 1)

ULP device cord (optional)
LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

ULP line terminations (pack of 10)
TRV00880



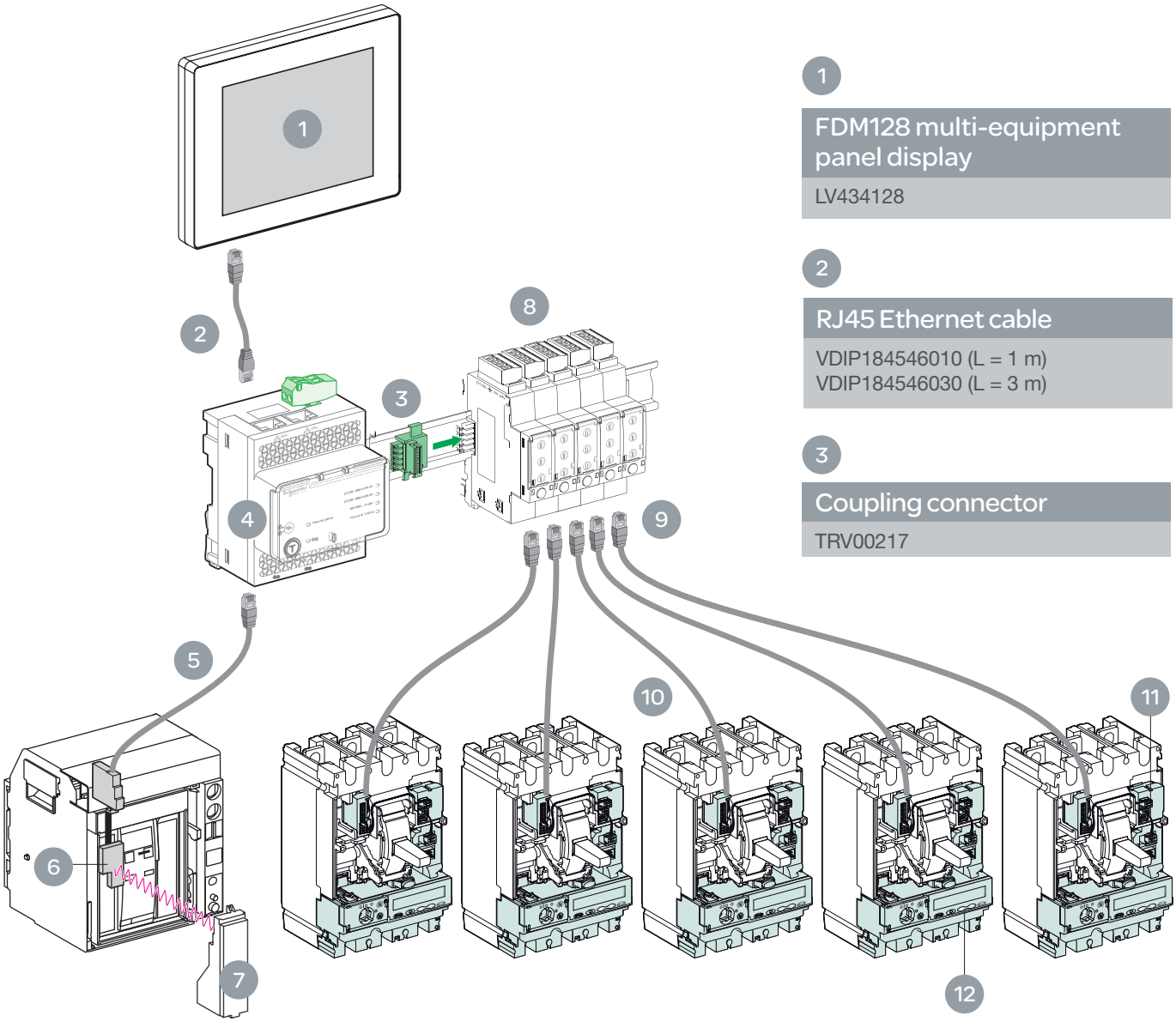
1. Chassis position contacts CE/CD/CT*
2. Smart electrical control*
3. Device communication module (BCM ULP)*
4. Micrologic E/P/H* circuit breaker control unit

Drawout device option*

*** For control with the circuit breaker for factory conversion**
(Rapsodie listing or control network)

Multi-product architectures

Architecture example



1

FDM128 multi-equipment panel display

LV434128

2

RJ45 Ethernet cable

VDIP184546010 (L = 1 m)
VDIP184546030 (L = 3 m)

3

Coupling connector

TRV00217

4

Ethernet interface

LV434011 (gateway function)

5

Compact NS and Masterpact NT/NW cord

LV434195 (L = 0.35 m)
LV434196 (L = 1.3 m)
LV434197 (L = 3 m)

6

Communication option

7

Micrologic E/P/H circuit breaker control unit

8

Modbus RS485 interface

TRV00210

9

ULP line terminations
(pack of 10)

TRV00880

10

NSX cable (optional)

LV434200 (L = 0.35 m)
LV434201 (L = 1.3 m)
LV434202 (L = 3 m)

11

BSCM module

LV434205

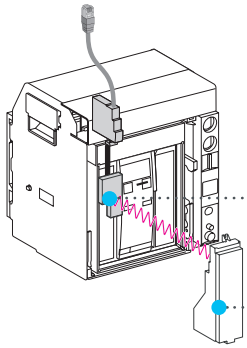
12

Micrologic E circuit breaker control unit

24 VDC power supply

24 VDC and supply unit consumption

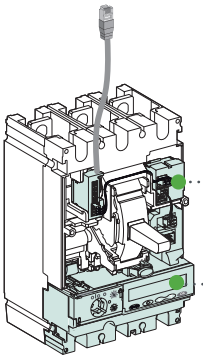
Compact NS, Masterpact NT/NW



BCM ULP module
40 mA

Micrologic E/P/H
100 mA

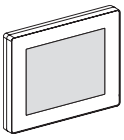
Compact NSX



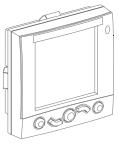
BSCM module
9 mA

Micrologic E
30 mA

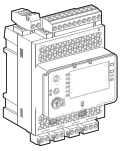
Shared accessories



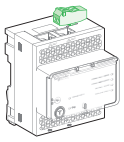
FDM128 display
285 mA



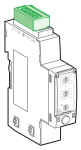
FDM121 display
21 mA



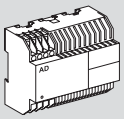
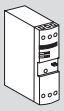
I/O module
165 mA



IFE Ethernet interface
120 mA



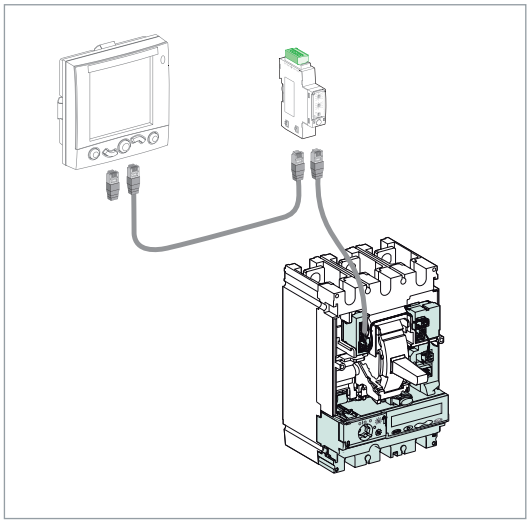
RS485 IFM interface
21 mA

		
Supply unit	**AD module**	**Universal power supply**
Voltage output	24 VDC	24 VDC
Nominal current	1A	3A
Primary surge cat.	IV	II
24/30 VDC input	**54440**	/
48/60 VDC input	**54441**	/
100/125 VDC input	**54442**	ABL8RPS24030
110/130 VDC input	**54443**	
200/240 VDC input	**54444**	
380/415 VDC input	**54445**	/

24 VDC power supply calculation

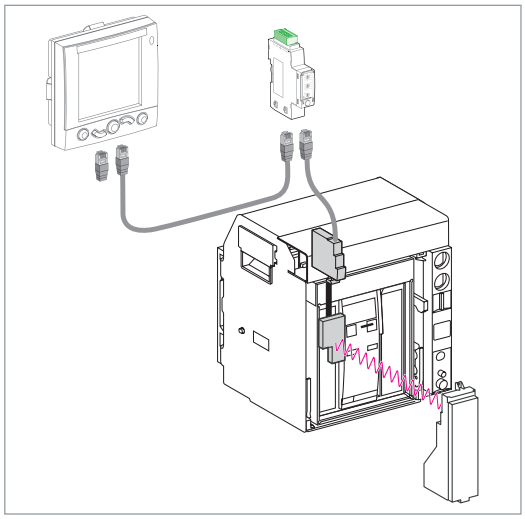
Single product calculation examples

Compact NSX with RS485 interface and display



Product	Consumption
FD121 display	21 mA
RS485 IFM interface	21 mA
BSCM module	9 mA
Micrologic circuit breaker control unit	30 mA
Total	**81 mA**

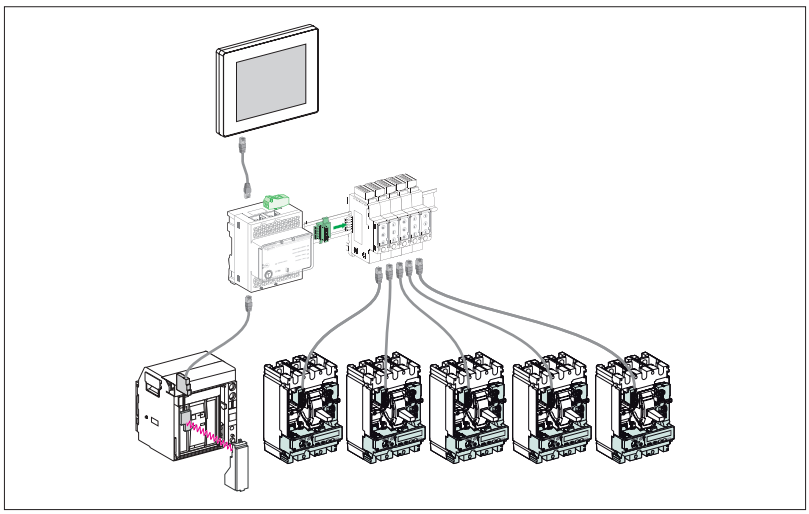
Compact NS with RS485 interface and display



Product	Consumption
FD121 display	21 mA
RS485 IFM interface	21 mA
BCM ULP module	40 mA
Micrologic circuit breaker control unit	100 mA
Total	**182 mA**

Multi-product calculation example

Compact NS with IFE Ethernet interface, 5 Compact NSX with RS485 IFM interfaces, 1 x FDM128 front panel display



Product	Consumption	Qty
FDM128 display	285 mA	1
IFE Ethernet interface	120 mA	1
BCM ULP module	40 mA	1
Micrologic Compact NS	100 mA	1
RS485 IFM interface	21 mA	5
BSCM module	9 mA	5
Micrologic Compact NSX	30 mA	5
Total	**845 mA**	

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