Indicator LED's

USB connector for

PC/Laptop

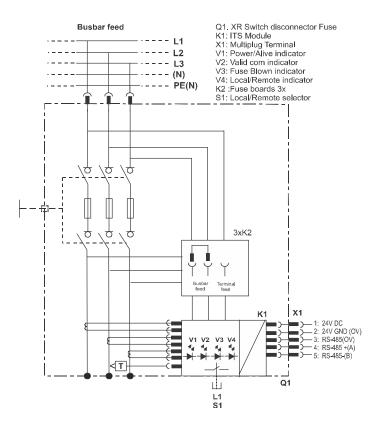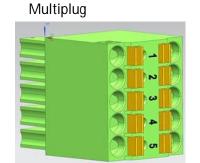| V1	V2	V3	V4/S1
Power/Alive	Valid com. message received	Fuse blown	Local/Remote

How to remove:
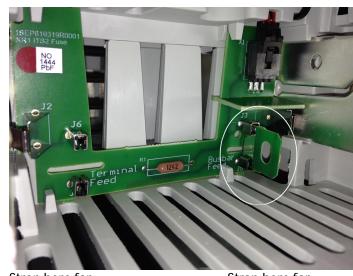Grab ITS2.1 or ITS2.D housing as shown and pull.

How to insert:
Align left side of ITS2.1 or ITS2.D unit against left side of opening in the switch. When resistance is felt, push unit until it stops.
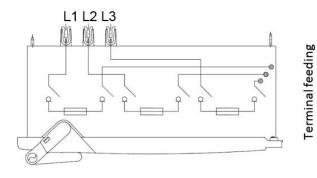
Phase overview XR version

50mm Busbar distance
L1 L2 L3
Terminal feeding

185mm Busbar distance
L1   L2   L3
Terminal feeding

Busbar feed

L1
L2
L3
(N)
PE(N)

Q1. XR Switch disconnector Fuse
K1: ITS Module
X1: Multiplug Terminal
V1: Power/Alive indicator
V2: Valid com indicator
V3: Fuse Blown indicator
V4: Local/Remote indicator
K2 :Fuse boards 3x
S1: Local/Remote selector

3xK2

Busbar feed   Terminal feed

K1   X1
V1 V2 V3 V4
1: 24V DC
2: 24V GND (0V)
3: RS-485(0V)
4: RS-485 +(A)
5: RS-485-(B)

L1
S1

Q1

Terminal feed

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L1
S1

Q1

L1
L2
L3
(N)
PE(N)

Multiplug

Terminal	Signal
1	24 VDC
2	24 V GND (0V)
3	RS-485 0V
4	RS-485 + (A)
5	RS-485 – (B)

Place link according to feeding direction

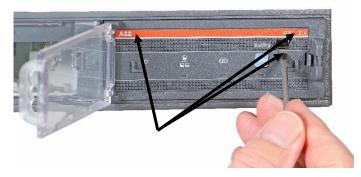Strap here for
Terminal feed

Strap here for
Busbar feed

Technical data for XR ITS2

Input voltage limits	
Power supply	24 VDC ± 20%
Power consumption	2W
Functional characteristics	
Voltage measuring range	10 – 900 VAC
Measured current range	0 – 1,3 x In
Measuring range temperature	0 – 127 ºC
Measuring accuracy (Voltage and current)	± 1 %
Electronic Fuse Monitoring detection level	Nominal line to line voltage – 20%
Electronic Fuse Monitoring operating time	≥ 1 s
Signaling output terminals (multiplug)	
Conductor cross section stranded min.	0.25 mm^2
Conductor cross section stranded max.	1.5 mm^2
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm^2
Conductor cross section stranded, with ferrule with plastic sleeve max.	0.75 mm^2
Modbus communication and configuration	
Default setting	19200 E,8,1
	Default Modbus addr. 247
Baudrates	9600, 19200
Parity, stop- start bits	E,8,1 – O,8,1 – N,8,2 – N,8,1
Modbus address range	1 – 247
Configuration tool	Ekip connect
	SACE Ekip T&P needed when connecting a laptop to the ITS2.1 or ITS2.D unit for configuration
Termination resistor	No internal resistor. If needed, place on terminal 4,5 on last ITS2.1 or ITS2.D unit in multidrop line.
Insulation test	The ITS2.1 or ITS2.D unit must be removed during dielectric test.

ITS2.D / with integrated Ekip Display

How to install the Ekip Display (Order code 1SDA068659R0001) to an ITS 2.1 :

1. Push in the 3 areas at the front label of the ITS 2.1 as shown above.

2. Plug in the Ekip Display carefully. Let the guide pin at the left side first slide into position. Then slide the right side into the USB plug in the ITS2.1.

3. Fix the closing button by using a screw driver and rotate to closed position.

For possible connection to your PC/laptop using the software Ekip Connect, use the USB connector at the bottom side of the Ekip Display.

The connection cable has to be the T&P cable kit(Order code : 1SDA066989R0001)

The Ekip Connect software tool can be downloaded for free at:
http://www.abb.com/abblibrary/DownloadCente