

B 9302

 ϵ

B 9302: Assembly kit

I/O subrack, 4 units high

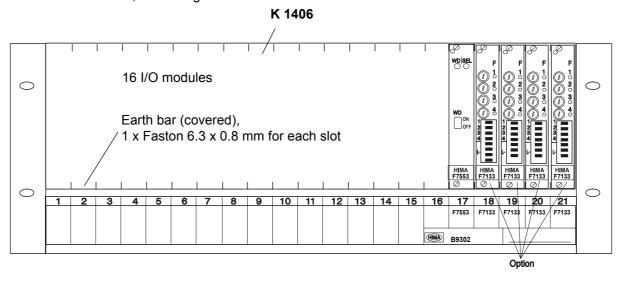


Figure 1: Side view

1 Parts of the B 9302 assembly kit

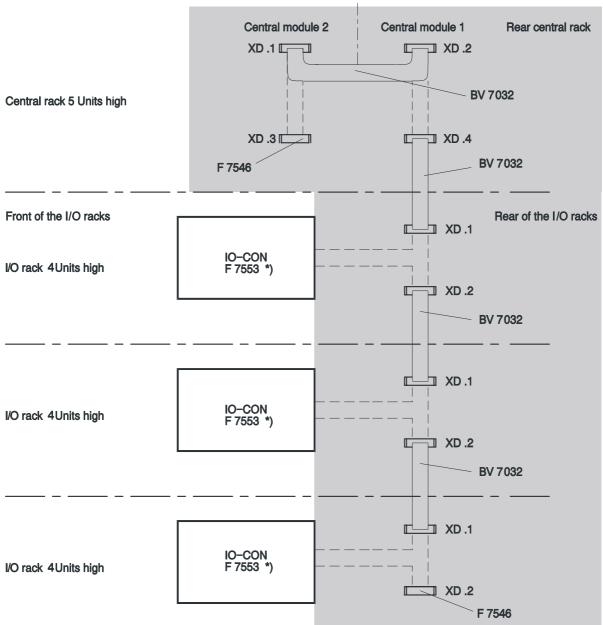
- 1 x K 1406 I/O subrack, 4 units high, 19 inch, with integrated cable tray, with a hinged receptacle for the lable
- 1 x F 7553 coupling module (in slot 17)
- 1 x BV 7032 flat cable, length is depending on the order. The standards are B 9302 with 0.5 m cable. Assembly kit B 9302 with choosable cable length on demand. Total bus length is maximum 12 m.

The slots 1 through 16 of the rack K 1406 are reserved for I/O modules.

Modules for option (separate order):

1...4 x F 7133 4-channel power distribution with fuses (slots 18...21) to fuse and distribute L+ (EL+) and L-.

The fuse monitoring on the current distribution modules are internally switched in series. A corresponding fault signal is served via a neutral contact. The fault contact of a not installed current distribution module is bypassed by a jumper.



*) Set I/O rack address by means of a coding switch (refer to data sheet F 7553)

Figure 2: Wiring of the single channel I/O bus

max. length I/O bus: 12 m max. length cable BV 7032: 5 m

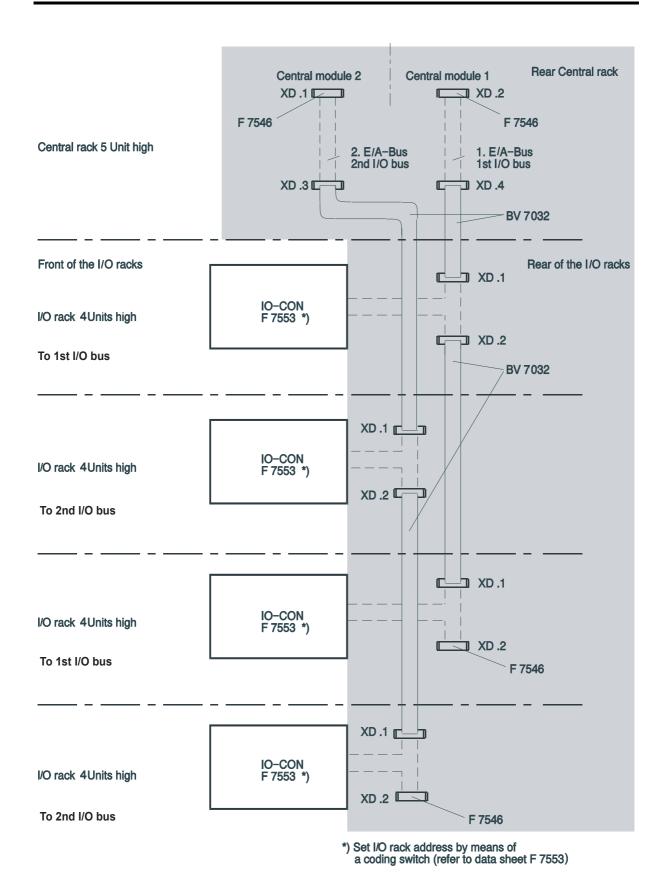


Figure 3: Wiring of the redundant I/O bus

max. length of I/O bus: 12 m max. length cable BV 7032: 5 m

2 Wiring of the assembly kit connections

Wirings to be done by the user:

2.1 Supply 24 VDC

Connection	Wire and connection	Fusing	Use
XG.7 (L+)	RD 2.5 mm ² , Faston 6.3 x 0.8	max. 16 A gL	F 7133, slot 21
XG.8 (L+)	RD 2.5 mm ² , Faston 6.3 x 0.8	max. 16 A gL	F 7133, slot 20
XG.9 (L+)	RD 2.5 mm ² , Faston 6.3 x 0.8	max. 16 A gL	F 7133, slot 19
XG.10 (L+)	RD 2.5 mm ² , Faston 6.3 x 0.8	max. 16 A gL	F 7133, slot 18
RD = Color code red			

Table 1: Supply 24 VDC

2.2 Output 24 VDC

Connection	Wire and connection	Use
XG.3 (L+)	RD 1.5 mm ² , Faston 6.3 x 0.8	from central rack and to further I/O racks
XG.11 (L-)	BK 2 x 2.5 mm ² , Faston 6.3 x 0.8 (see note)	Reference pole L-
RD = Color code red	BK = Color code black	

Table 2: Output 24 VDC

Note	To be wired to the central L- bus bar with at least $2 \times 2.5 \text{ mm}^2$ BK. If output modules with 2-pole connection to the actuators are used depending on the load up to $4 \times 2.5 \text{ mm}^2$ BK wiring is necessary.
------	--

2.3 Output 5 VDC

Connection	Wire and connection	Use
XG.4: +5 V	YE 2 x 2.5 mm ² , Faston 6.3 x 0.8	from central rack
XG.12: GND	GN 2 x 2.5 mm ² , Faston 6.3 x 0.8	from central rack
GN = Color code green YE = Color code yellow		

Table 3: Output 5 VDC

2.4 Connection WD

Connection	Wire and connection	Use
XG.15:1	GY 0.5 mm ² , wire end ferrule	from central rack and to fur- ther I/O racks
GY = Color code gray		

Table 4: Connection WD

2.5 I/O Bus

Connection	Procedure
XD.1	Plug in BV 7032 and connect it with the I/O subrack before
	Plug in BV 7032 of the following I/O subrack on the according I/O bus or plug in bus termination module F 7546 (at the last I/O subrack)

Table 5: I/O Bus



With installation of the assembly kit a conductive connection to the frame or a separate earth connection has to be installed according to the EMC requirements.

Connection PE earth: Faston 6.3 x 0.8 mm.

Pay attention for the manufacturers information concerning detaching and replugging of the Faston connectors!

Refer also to: Supply, feeding and distribution of the 24 V system voltage, see assembly kit, wiring diagram.

2.6 Connections on the rear

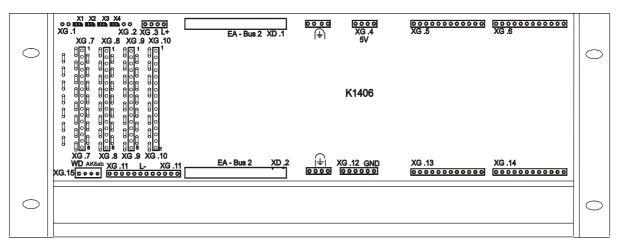


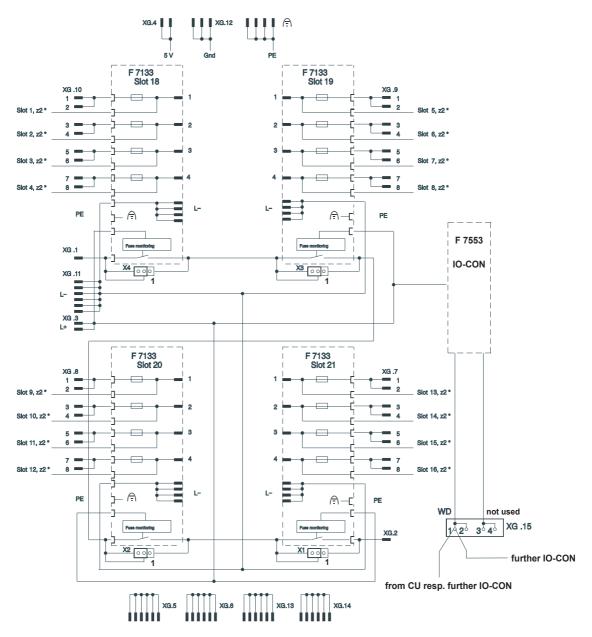
Figure 4: Connections on the rear of the I/O subrack K 1406

Connections on the rear of the I/O subrack K 1406 (refer also to: Supply, feeding and distribution of the 24 V system voltage, wiring diagram).

2.6.1 Wiring by customer

XG .1, XG .2	Fuse monitoring (neutral contacts on current distribution module F 7133, not equipped F 7133 slot can be overrided by the jumpers X1X4)
	= Slot equipped
XG .3	Supply EL+ for F 7133 and F 7553 Reference pole: XG .11 (L-)
XG. 4	+ 5 V
	Reference pole: XG .12 (GND)
XG .5	Potential distributor, free disposal
XG .6	Potential distributor, free disposal
XG. 13	Potential distributor, free disposal
XG .14	Potential distributor, free disposal
XG .7	L+ to F 7133, slot 21
XG .8	L+ to F 7133, slot 20
XG .9	L+ to F 7133, slot 19
XG .10	L+ to F 7133, slot 18
XG .11	Reference potential L-
XG.12	Reference pole GND
XG .15 (1+2)	WD (Watchdog signal)
XG .15 (3+4)	not used
XD .1, XD .2	I/O bus connection
(-	PE (earth)

2.7 Assemby kit, wiring diagram



^{*}Note: Fix related slots due to the connection via bus board

Figure 5: Assembly kit, wiring diagram

3 Side view B 9302 assembly kit

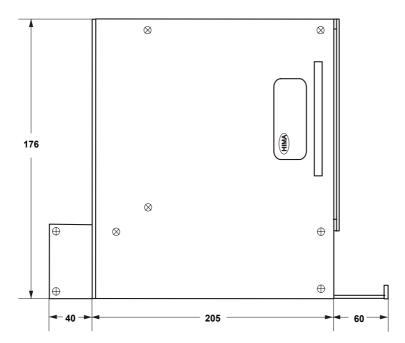


Figure 6: Side view