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3x cinch/S-Video socket
Order no.: 33 1532 xx

USB/3.5 mm audio socket
Order no.: 33 1539 xx

VGA socket
Order no.: 33 1540 xx

VGA socket with screw-in lift terminals
Order no.: 33 1541 xx

High definition socket
Order no.: 33 1542 xx

High definition socket with 90° plug connection
Order no.: 33 1543 xx

Operation and installation instructions

1 Safety instructions

Electrical equipment must only be installed and assembled by qualified electricians. Always follow the relevant accident prevention regulations.

Failure to comply with these instructions may result in damage to the device, fire or other hazards.

Proper signal transmission is only ensured when the appropriate accessories are used and the specified maximum cable lengths are observed, as well as the minimum permissible distance of 0.3 m from current-carrying cables and sources of interference (electronic ballasts, dimmers, ESLs, etc.) are observed.

These operating instructions are an integral component of the product, and must be retained by the end user.

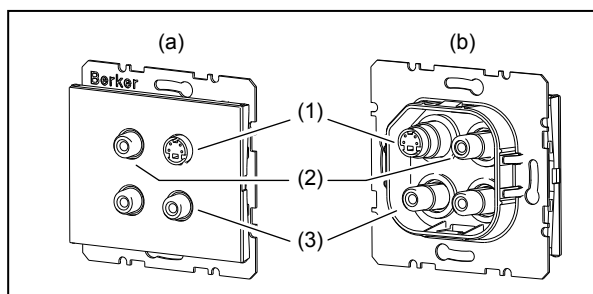## 2 Structure of the device

Front view (a), rear view (b)

Figure 1: 3 x cinch/S-Video socket

(1)   S-Video jacks

(2)   Cinch video jacks (yellow)
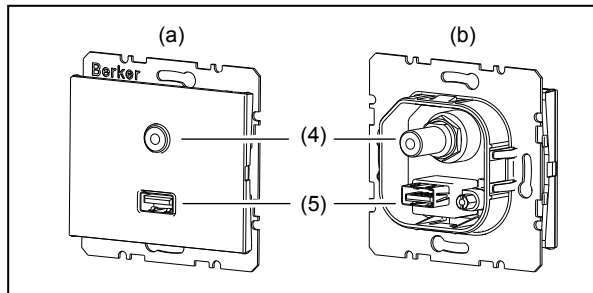
(3)   Cinch audio jacks (red, white)

Figure 2: USB/3.5 mm audio socket
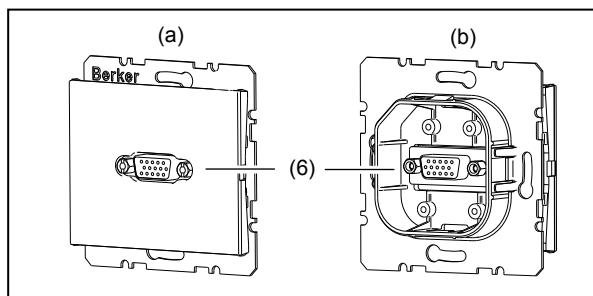
(4)   3.5 mm jack sockets

(5)   USB jacks

Figure 3: VGA socket

(6)   VGA jacks
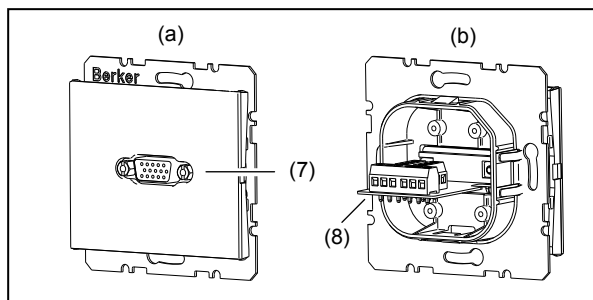

Figure 4: VGA socket with screw-in lift terminals

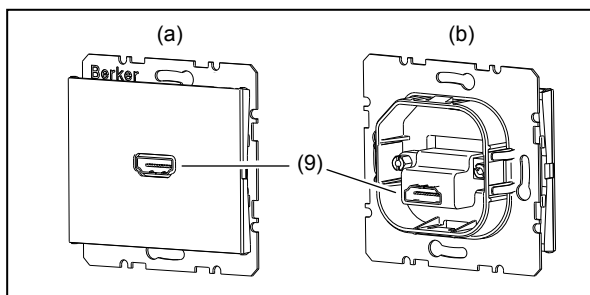(7)   VGA jacks

(8)   Connection terminals
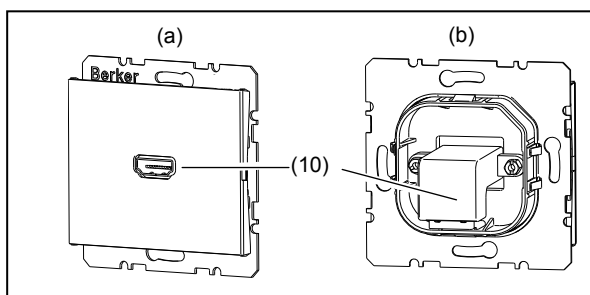
Figure 5: High definition socket

(9)   HDMI™ jacks

Figure 6: High definition socket with 90° plug connection

(10) HDMI™ jacks

3 Function

The multimedia sockets serve to connect input and output devices for transmission of audio/video signals and data.

ⓘ   The available functions depend on the devices that are connected. To select the suitable socket, note the information from the manufacturer of the connected devices.

Intended use

–   Only suitable for use in indoor areas
–   Can be used in multiple combinations
–   Flush-mounting in wall box according to DIN VDE 0606
–   Connection of audio/video devices via "Plug&Play"

4 Operation

⚠   **CAUTION!**

The use of non-standardised connecting cables and connectors can cause device malfunctions.

The devices may be destroyed.

Use only approved connecting cables and connectors.

Connecting multimedia devices

▪   Insert connector of the connecting cable from the signal source, e.g. from a DVD or MP3 player, into the jack of the multimedia socket.

- Insert connector of the connecting cable from a playback device, e.g. from an LCD/plasma television or stereo system, into the jack of a second multimedia socket.
- ⓘ Insert connectors into the jacks straight and without using force. Twisting or tilting the connector may deform the contacts.

Application examples

Connection	Devices
Cinch	Audio systems, AV receivers, active loudspeakers ..
S-Video	SAT receivers, televisions, projectors, iPod docking stations, video cameras ..
USB	iPods, printers, storage media, digital cameras ..
3.5 mm audio	MP3 players, CD/DVD players, sound cards, audio systems ..
VGA	PCs/laptops, projectors, monitors ..
High definition	High definition plasma/LCD televisions, SAT receivers, projectors, game consoles, DVD/Blue-ray players, DVD/HDD recorders, video cameras ..

5 Information for electricians

5.1 Assembly

Connecting and installing the multimedia socket

The connecting cable has been laid, the wall box is installed in the wall.

ⓘ Recommendation: use Kaiser "Electronics Box" (Art. no. 1068-02 or 9062-74) in order to maintain the permissible bending radii.
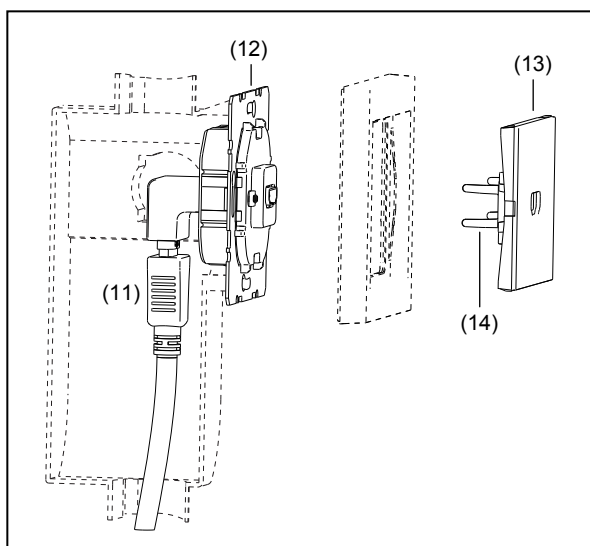

Figure 7

- Insert connector of the connecting cable into the corresponding jack on the rear of the multimedia socket (Figure 7, 11) **or**
- When using the VGA socket with screw-in lift terminals, prepare the wire ends and connect to the terminals according to the terminal assignment (Figure 8, Table 1).
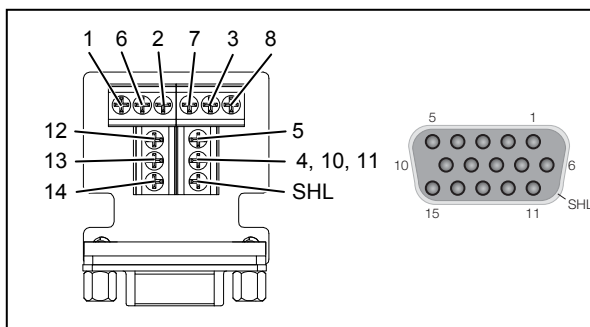
Figure 8

PIN/Terminal	Transmission signal	Wire
1	red	Coaxial wire
2	green	Coaxial wire
3	blue	Coaxial wire
4*	Monitor ID bit 2	Twisted pair wire (optional connection)
5	Ground	Twisted pair wire
6	red ground	Coaxial shielding
7	green ground	Coaxial shielding
8	blue ground	Coaxial shielding
9	-	-
10*	Synchronous ground	Twisted pair wire
11*	Monitor ID bit 0 or digital ground	Twisted pair wire (optional connection)
12	Monitor ID bit 1	Twisted pair wire (optional connection)
13	Horizontal synchronisation	wire 1
14	Vertical synchronisation	wire 2
15	Monitior ID bit 3	-
SHL	Housing shielding	External shielding

*   are connected together at one terminal

Table 1: Contact pinouts of the VGA socket with screw-in lift terminals

- Screw insert (Figure 7, 12) to the wall box in the right orientation via the supporting ring.

- Place centre plate (Figure 7, 13) into the frame.

- Mount centre plate together with the frame on the insert using clamp springs (Figure 7, 14).
  The multimedia wall box can be commissioned.

5.2 Commissioning

⚠️ **CAUTION!**
Short-circuit if devices that are switched on are connected.
Devices may be destroyed.
Switch all devices off before connecting them.

Carrying out a functional test

Multimedia devices are connected.

▪ Activate the desired functions and check the signal transmission at the signal sources and the playback device, e.g. play a DVD and check picture/sound reproduction on a television set.

The multimedia socket is ready for operation.

6 Appendix

6.1 Technical data

Ambient temperature	-5 to +45 °C

Cinch jacks

Rated voltage	DC 50 V=
Frequency ranges	
- Audio	20 Hz to 20 KHz
- Video	max. 160 MHz
Contact resistance	max. 20 mΩ
Insulation resistance	min. 100 mΩ
Electric strength	AC 500 V~ (50/60 Hz) for 1 min. 2 mA
Insertion and removal forces	3 N to 25 N
- Cycles	1000 insertion/removal operations
Connection	
- Double jacks	yellow (video) white (audio, left) red (audio, right)
- Contact material	gold-plated

S-Video jacks

Rated voltage	DC 50 V=
Frequency ranges	
- Video	max. 160 MHz
Contact resistance	max. 80 mΩ
Insulation resistance	min. 50 mΩ
Electric strength	AC 500 V~ (50/60 Hz) for 1 min. 2 mA
Insertion forces	max. 44.1 N
Removal forces	5.88 N to 29.4 N
- Cycles	1000 insertion/removal operations
Connection	
- Double jack	S-Video
- Contact material	gold-plated

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USB jacks

Standard	2.0 "High Speed"
Connection	
- Double jack	Type A, 180°

3.5 mm audio jacks

Rated voltage	DC 50 V=
Frequency ranges	
- Audio	20 Hz to 20 KHz
Contact resistance	max. 20 mΩ
Insulation resistance	min. 100 mΩ
Electric strength	AC 500 V~ to 2000 V~
	DC 800 V=
Insertion and removal forces	4.9 N to 14.7 N
- Cycles	2000 insertion/removal operations
Connection	
- Double jack	3.5 mm Audio "Stereo", 180°
- Contact material	gold-plated

HDMI™ jacks

Standard	1.3/Category 2
	Support for HDMI™ technology
	(V 1.3 with Deep Color)
Video bandwidth	1.65 GHz
Resolution	max. 1080p (1920 x 1080 pixels)
Vertical frequency range	50 to 85 Hz
Transmission rate	max. 10.2 GBit/s
Connection	
- Double jack	HDMI™ type A, 180°
- Contact material	gold-plated

VGA jacks

Resolution	min. 800 x 600 pixels
	max. 1280 x 1024 pixels
	S-VGA compatible
Frequency ranges	
- Video	max. 160 MHz
Contact resistance	max. 30 mΩ
Insulation resistance	min. 1000 mΩ
Electric strength	AC 1000 V~ (50/60 Hz)
	for 1 min. 2 mA
Insertion forces	43.9 N
Removal forces	3.92 N
- Cycles	500 insertion/removal operations
Connection	
- Jack	15pole D-subminiature, 180°
- Conductor cross-section Screw-in lift terminal	max. 1.5 mm²

	Frequency	Impedance	Wavelength
Cinch/S-Video	4 MHz to 6 MHz	10 Ω to 20 Ω	50 m
USB 2.0	60 MHz	75 Ω	5 m
3.5 mm audio	20 KHz	10 Ω to 20 Ω	15.000 m
HDMI™	340 MHz	75 Ω	0.882 m
VGA	25 MHz	75 Ω	12 m

6.2 Troubleshooting

No signal at the playback device after the signal sources is switched on.

Cause 1: Playback device is not switched on.
    Switch on playback device.

Cause 2: Loose connector.
    Check that all connections are properly seated.

No video signal at the playback device after the signal sources is switched on.

Cause 1: Signal source is not recognised by the playback device.
    Manual selection of the signal source using remote control or channel selection buttons of the player.

Cause 2: VGA output of the signal source is not activated.
    Activate VGA output. Note information of the device manufacturer.

No audio signal at the playback device after the signal sources is switched on.

Cause 1: Volume control on the signal source or on the playback device is set too low.
    Increase volume.

Cause 2: The audio on the playback device is set to mute.
    Deactivate the mute function. Note information of the device manufacturer.

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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