MS 32 104

MS 31/32



 Image: RS 232
 Image: RS 485

 RS 485
 Image: RS 485

BARCODE

- Modular hood with integrated connectors for BCL 31 and BCL 32 devices
- Connection with M12 technology
- Integrated, fail-safe parameter memory facilitates device exchange without reconfiguration
- Networking of multiple BCL 31 devices via RS 485 in multiNet plus
- Address setting using rotary and slide switches
- Separate connection for switching inputs and switching outputs





Accessories:

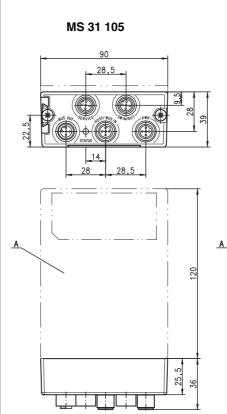
(available separately)

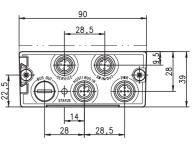
We reserve the right to make changes • MS

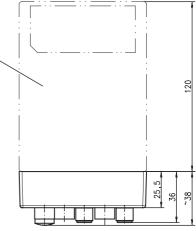
- Ready-made lines for connecting the RS 485 devices in lengths of 1 ... 30m (KB PB ...)
- Service cable for connecting the service interface to the PC (KB-Service-3000)
- Easy-to-wire connectors for
 - voltage supply (KD 095-5-A)
 - multiNet plus IN (KD 02-5-BA)
 - multiNet plus OUT (KD 02-5-SA)
- Terminating resistor (TS 02-4-SA)
- Dovetail rod mounting set (BT 56)

Modular hood with integrated connectors

Dimensioned drawing

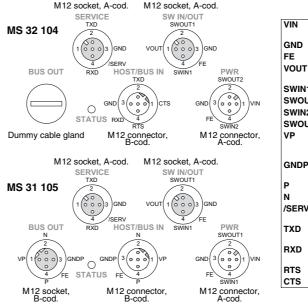






A Barcode reader BCL 31/32

Electrical connection



N	Operating voltage 10 30VDC
1D	Ground
	Functional earth
UT	Supply voltage sensor
VIN1	Switching input 1
VOUT1	Switching output 1
VIN2	Switching input 2
VOUT2	Switching output 2
	Supply voltage for RS 485 Termination
IDP	Ground for RS 485 Termination
	RS 485 line A
	RS 485 line B
ERV	Input for switching to Service mode
D	Transmission line RS 232
D	Receiving line RS 232
S	Ready To Send
s	Clear To Send

Leuze electronic

MS 31/32

Specifications

Electrical data

Operating voltage Power consumption Switching input Switching output

Indicators

"STATUS" LED green orange red

Mechanical data

Protection class Weight Dimensions (HxWxD) Housing Connection type

Environmental data

Ambient temp. (operation/storage) Air humidity Vibration Shock Continuous shock Electromagnetic compatibility

MS 31 105

see BCL 31/32 data sheet/technical description 1, 12 ... 30VDC 2, 12 ... 30VDC 1, I_{max} 100mA 2, I_{max} 100mA

MS 32 104

switching output 1

160 g 38x90x39mm

diecast zinc M12 connector, 5-pin

ready

IP 65

ready switching output 1 not ready

IP 65 160 g 38x90x39mm diecast zinc M12 connector, 5-pin

0°C ... +40°C/-20°C ... +60°C max. 90% rel. humidity, non-condensing IEC 60068-2-6, Test Fc 10 ... 55Hz, 0.35mm IEC 60068-2-27, Test Ea 15g/11ms IEC 60068-2-29, Test Eb 10g/16ms EN 61326-1, IEC 61000-4-2, -3, -4 and -6

Tables

Diagrams

See page 3.



Attention!

The MS 31/32 modular hood with integrated connectors can **only be used in combination with BCL 31/32 barcode readers with software version 2.03 and newer**.

Order guide

Туре	Description	Part No.
MS 31 105	Modular hood with integrated connectors for BCL 31 devices with 5 M12 connectors	501 07685
MS 32 104	Modular hood with integrated connectors for BCL 32 devices with 4 M 12 connectors	501 07686
Accessories		
BT 56	Dovetail rod mounting set	500 27375
KD 095-5-A	User-configurable M12 connector for supply voltage	500 20501
KD 02-5-BA	User-configurable M12 socket for RS 485 IN	500 38538
KD 02-5-SA	User-configurable M12 connector for RS 485 OUT	500 38537
TS 02-4-SA	Connector with RS 485 terminating resistor	500 38539
KB PB BA	Ready-made, shielded RS 485 line, M12 socket - open end, lengths: 1m/2m/5m/10m/15m/20m/25m/30m, see price list	
KB PB SA	Ready-made, shielded RS 485 line, M12 connector - open end, lengths: 1m/2m/5m/10m/15m/20m/25m/30m, see price list	
KB PB SBA	Ready-made, shielded RS 485 line, M12 connector - M12 socket, lengths: 1m/2m/5m/10m/15m/20m/25m/30m, see price list	
KB-Service-3000	Service cable for connecting the MS 31/32 to a PC, length: 3m	501 10155

Remarks

Intended Use

The modular hoods with integrated connectors are connector units for simplifying the connection and networking of the BCL 31 and BCL 32 barcode readers with M12 connector technology.

- The scanner must not be plugged in if the power is on.
- Refer to the technical description for the BCL 31/ 32 barcode readers.

MS 31/32

Modular hood with integrated connectors

Description

The MS 31 105 and MS 32 104 modular hoods with integrated connectors were developed for networking with the BCL 31 and BCL 32 barcode readers and/or for connecting them to the host system with M12 connector technology.

- MS 31 105 and MS 32 104 are equipped with a parameter memory in which the parameters of the connected barcode reader are stored in a fail-safe manner.
- A separate M12 service connector facilitates simple and reliable data communication should servicing be necessary. As soon as the service cable is plugged into the RS 232 socket, the connected barcode reader goes into Service mode (default data format 9600baud / 8 data bits / 1 stop bit / no parity).
- The address is set using a hexadecimal rotary switch and a binary slide switch.
- Ready-made M12 lines, user-configurable M12 connectors or M12 sockets can be connected to the hoods with integrated connectors.

Operational controls

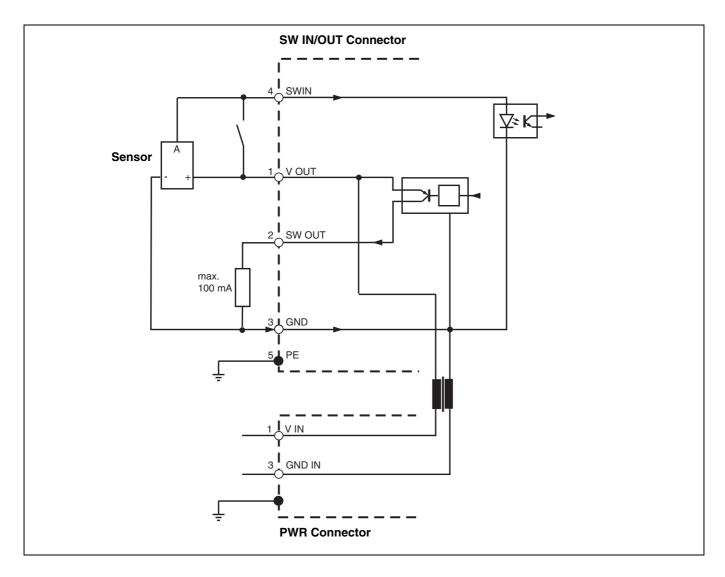
S1 S2 A Add	ress setting:
	15-pin Sub-D connector for connecting the BCL 31/32 Slide switch for selecting the address range 0 15 or 16 31

In addition to assigning the multiNet address, the rotary and slide switches of the MS 31 105 can also be used to implement the parameter reset function on address 31.

- For this purpose the address needs to be set to 31.
- The BCL 31 device is then restarted.
- The parameter set of the BCL 31 is overwritten with the factory parameter set.

Because the MS 32 104 is not operated in a network, the address setting for the MS 32 104 only applies with reference to address 31. Address 31 is also used as the reset function for BCL 32.

MS 31/32



Wiring of the switching inputs and switching outputs