

Network hub with trigger, sync and power distribution to high-speed cameras.

- Support of up to 8 high-speed cameras
- For onboard and offboard applications
- Combines all signals and power supply in one connector
- Uplink for cascading several units
- Compatible with MESSRING Trailing Cable Box and M=BUS Mounting Rail



TECHNICAL SPECIFICATIONS

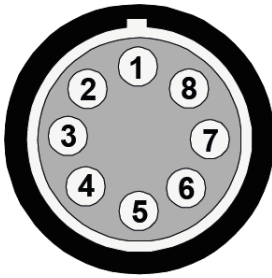
General	
Number of high-speed camera ports	8
Input voltage	18...50 VDC @ max. 18 A
Camera supply voltage per port	Input voltage @ max. 5 A
Communication to host (uplink)	2 x 1 / 2.5 / 5 / 7.5 / 10 GbE (IEEE 802.3.an)
Communication camera	8 x 1 GbE (IEEE 802.3.ab)
Jumbo frame support	IEEE 802.3x
Trigger	Trigger-bus (RS 485), 5V-TTL, contact closure
Sync	Trigger-bus (RS 485), 5V-TTL
Dimensions	249 mm x 80 mm x 100 mm
Weight	2.5 kg
Operating temperature	0...40°C
Humidity range	10...90 % RH
Shockproof	100 G @ 20 ms
Mounting Plate	
Dimensions	330 mm x 4 mm x 100 mm
Weight	1.55 kg

- Scope of supply**
- M=CAM Onboard Supply
 - Mounting plate and screws

- Required for operation**
- External power supply

- Options**
- M=CAM high-speed cameras
 - M=BUS Mounting Rail
 - System cables
 - System integration

PIN ASSIGNMENT



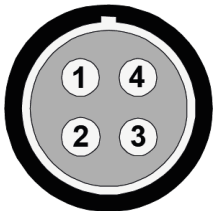
Pin	Description	Pin	Description
1	PWR IN (18...50 VDC)	5	PWR RETURN
2	PWR IN (18...50 VDC)	6	PWR RETURN
3	PWR IN (18...50 VDC)	7	nc.
4	PWR RETURN	8	nc.

Figure 1: Pin assignment power connector (socket view, device)
Use this plug: LEMO FGG.2B.308...



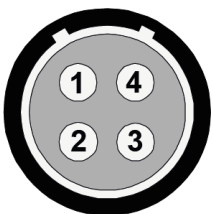
Pin	Description	Pin	Description
1	Sync+ (RS-485 A, input only)	6	nc.
2	Sync- (RS-485 B, input only)	7	Trigger+ (RS-485 A, input only)
3	GND	8	Trigger- (RS-485 B, input only)
4	nc.	9	GND
5	5V output (max. 120mA)	10	nc.

Figure 2: Pin assignment system link (socket view, device)
Use this plug: LEMO FGG.2B.310...



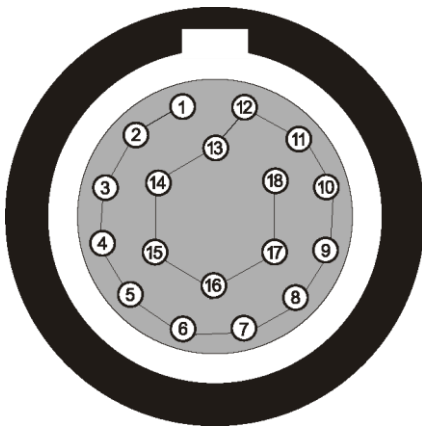
Pin	Description	Pin	Description
1	5V output (max. 120mA)	3	Trigger+ (RS-485 A, input only)
2	Trigger- (RS-485 B, input only)	4	GND

Figure 3: Pin assignment trigger (socket view, device)
Use this plug: LEMO FGG.1B.304...



Pin	Description	Pin	Description
1	5V output (max. 120mA)	3	Sync+ (RS-485 A, input only)
2	Sync- (RS-485 B, input only)	4	GND

Figure 4: Pin assignment sync (socket view, device)
Use this plug: LEMO FGC.1B.304...



Pin	Description	Pin	Description
1	Ethernet BI_DA-	10	Sync- (RS485 B, output only)
2	Ethernet BI_DD-	11	PWR Return
3	Ethernet BI_DB-	12	PWR Return
4	Ethernet BI_DB+	13	Ethernet BI_DA+
5	Ethernet BI_DC+	14	Ethernet BI_DD+
6	Arm+ (RS-485 A, bidirectional)	15	Ethernet BI_DC-
7	PWR OUT (18..50 VDC)*	16	Arm- (RS-485 B, bidirectional)
8	PWR OUT (18..50 VDC)*	17	Trigger+ (RS-485 A, output only)
9	Sync+ (RS-485 A, output only)	18	Trigger- (RS-485 B, output only)

Figure 5: Pin assignment cam port (socket view, device)

Use this plug: LEMO FGG.2B.318...

***Important Notice:** The output voltage on these pins will always equal the voltage supplied on the pins 1, 2, 3 on the Power Connector (see figure 1).

Please carefully check if the supplied voltage is within the specified range of the connected camera model. Applying lower or higher voltage other than specified from your camera manufacturer may result in permanent damage of the camera!



Pin	Description	Pin	Description
1	Ethernet BI_DA+	5	Ethernet BI_DC-
2	Ethernet BI_DA-	6	Ethernet BI_DB-
3	Ethernet BI_DB+	7	Ethernet BI_DD+
4	Ethernet BI_DC+	8	Ethernet BI_DD-

Figure 6: Pin assignment 10GbE uplink port (socket view, device)

Use this plug: LEMO FGC.2B.308...

MOUNTING

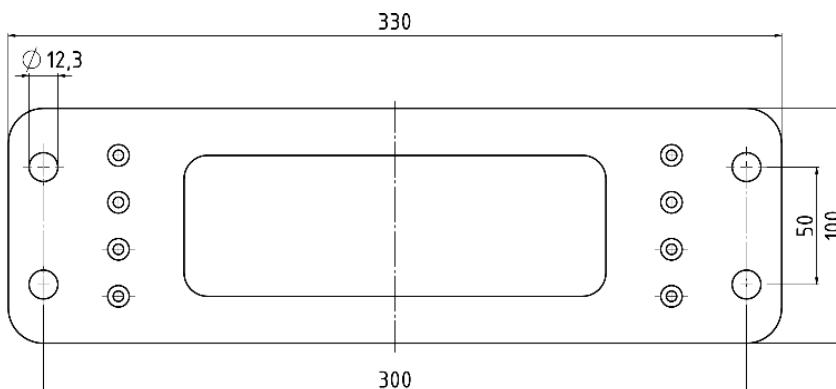


Figure 7: Hole pattern of mounting plate