



Balluff BPI passive interface for connecting sensors and actuators with the controller are particularly well suited for adverse conditions and recommended where coolants and lubricants are used. Metal screw inserts ensure optimum media resistance and a fully enclosed housing provides a higher degree of protection as well as better shock and vibration resistance characteristics.

Due to an outstanding design, Balluff BPI passive interfaces can be integrated in all systems and machines. Metal screw inserts also ensure improved fit of the connectors. The BPI can be flexibly mounted on all standard profiles and base plates and the mounting bore holes are centrally positioned. Additional mounting bore holes allow you to mount the BPI on its side.

Flexible mounting is supported by the highly visible LED. The full line of Balluff products includes all styles.

Balluff BPI passive interface - a multi-talent,

- even under demanding conditions
- Outstanding design - Fully enclosed housing
- High shock and vibration ratings
- Metal screw inserts
- Flexible mounting options



Passive Splitters Product topology

Passive splitters

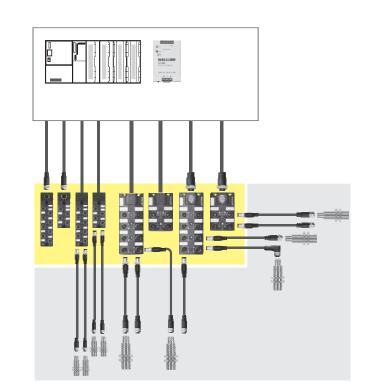
Lightweight and compact M8 and M12 plastic splitter boxes are used wherever space is limited or moving machine members are present. The plastic splitters come either complete or in modular form.

Features

- Customized, versatile and light, usable as M8 or M12 splitters
- Quick assembly and disassembly for transport
- Potential isolation using jumpers

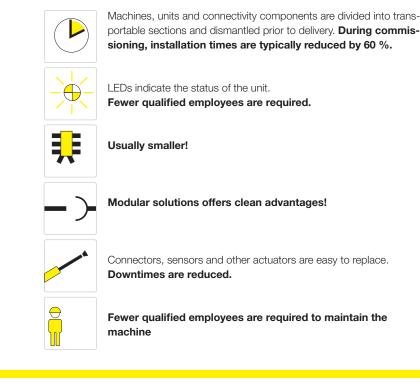
Typical applications

- for the plastic version
- Assembly and
- handling machines - Packaging
- Specialty machine
- construction



Conventional Use splitter boxes or split wiring directly in the switching

Use of passive splitter boxes



Assembly time

Info/ Feedback

Dimension

Connection technology

Complexity

Service personnel



cabinet







You can significantly reduce your installation and maintenance costs with Balluff splitters. male side

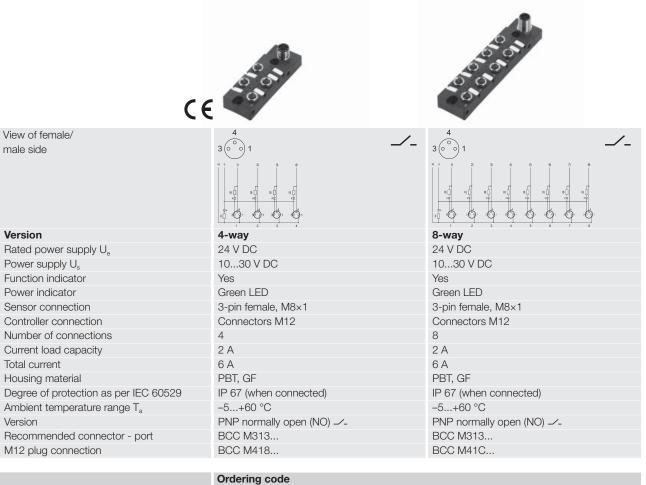
Version

Total current

Version

Passive Splitters

M8, 3-pin, with M12 plug connection, LED



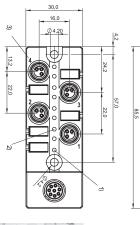
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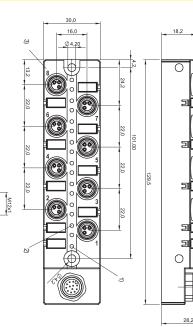
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- Part number BPI003P
- BPI 4M303P-2K-00-SM48T

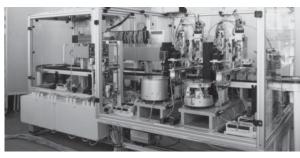
BPI003T BPI 8M303P-2K-00-SM4CT







Product topology Passive splitters <u>м</u>8 Passive splitters M12 Connectors M12 Connectors M23 Accessories



View of female/

male side

Version

Rated power supply $\mathrm{U_{e}}$

Power supply U_s Function indicator

Power indicator

Total current

Version

Housing material

Sensor connection

Controller connection

Current load capacity

Number of connections

M8, 3-pin with cable, LED

more added value

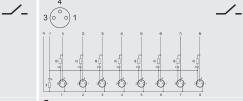
Small and compact!





4-way 24 ∨ DC 10...30 ∨ DC Yes Green LED 3-pin female, M8×1 Permanently connected cable 4 2 A 6 A PBT, GF IP 67 (when connected) -5...+60 °C PNP normally open (NO) ✓-BCC M313...





8-way 24 ∨ DC 10...30 ∨ DC Yes Green LED 3-pin female, M8×1 Permanently connected cable 8 2 A 6 A PBT, GF IP 67 (when connected) -5...+60 °C PNP normally open (NO) ✓-BCC M313...

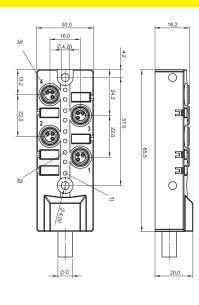
Cable material	Color	Length
PUR	Black	3 m
PUR	Black	5 m
PUR	Black	10 m
PUR	Black	15 m

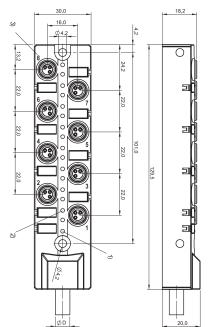
Degree of protection as per IEC 60529

Ambient temperature range T_a

Recommended connector - port

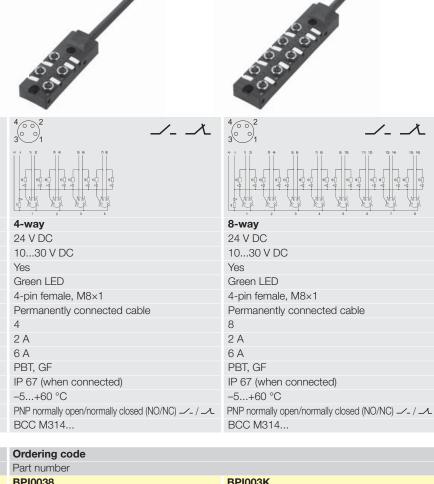
Ordering code	
Part number	
BPI002N	BP10030
BPI 4M303P-2K-00-KPX60-030	BPI 8M303P-2K-00-KPXA0-030
BPI002P	BPI0031
BPI 4M303P-2K-00-KPX60-050	BPI 8M303P-2K-00-KPXA0-050
BPI002R	BPI0032
BPI 4M303P-2K-00-KPX60-100	BPI 8M303P-2K-00-KPXA0-100
BPI002T	BPI0033
BPI 4M303P-2K-00-KPX60-150	BPI 8M303P-2K-00-KPXA0-150



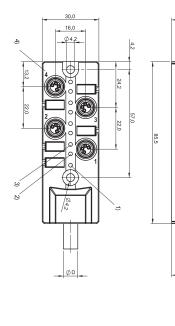


Passive Splitters M8, 4-pin with cable, LED

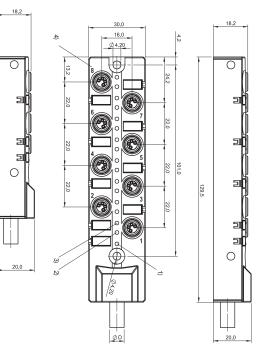
X



Part number	
BP10038	BPI003K
BPI 4M304P-2K-00-KPXA0-030	BPI 8M304P-2K-00-KPXK0-030
BP10039	BPI003L
BPI 4M304P-2K-00-KPXA0-050	BPI 8M304P-2K-00-KPXK0-050
BPI003A	BPI003M
BPI 4M304P-2K-00-KPXA0-100	BPI 8M304P-2K-00-KPXK0-100
BPI003C	BPI003N
BPI 4M304P-2K-00-KPXA0-150	BPI 8M304P-2K-00-KPXK0-150



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Passive splitters M8 Passive splitters M12 Connectors M12 Connectors M23 Accessories

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M12, 4-pin with cable, LED



View of female/ male side

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Ve	rsion	
	0.011	

Cable material

PUR

PUR

PUR

PUR

Rated power supply U_e Power supply U_s Function indicator Power indicator Sensor connection Controller connections Current load capacity Total current Housing material Degree of protection as per IEC 60529 Ambient temperature range T_a Version Recommended connector - port

3 050 0_0

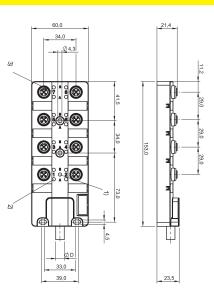


8-way

24 V DC 10...30 V DC Yes Green LED 4-pin female, M12×1 Permanently connected cable 8 2 A 6 A PBT, GF IP 67 (when connected) -5...+60 °C PNP normally open (NO) -/-BCC M414...

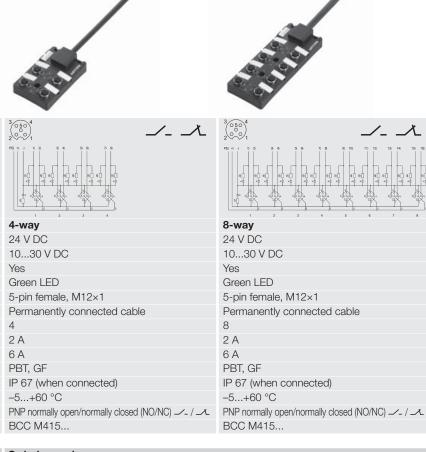
Color	Length	Ordering code			
		Part number			
Black	3 m	BPI0059			
		BPI 8M4A4P-2K-00-KPXB0-030			
Black 5 m	BPI005A				
		BPI 8M4A4P-2K-00-KPXB0-050			
Black	10 m	BPI005C			
		BPI 8M4A4P-2K-00-KPXB0-100			
Black	15 m	BPI005E			
		BPI 8M4A4P-2K-00-KPXB0-150			

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Passive Splitters M12, 5-pin with cable, LED

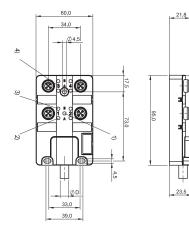
X

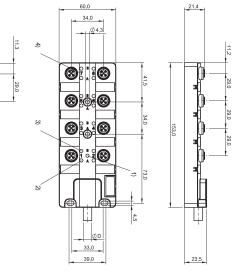


Ordering code

Part number	
BPI0049	BPI004R
BPI 4M4A5P-2K-00-KPXB0-030	BPI 8M4A5P-2K-00-KPXL0-030
BPI004A	BPI004T
BPI 4M4A5P-2K-00-KPXB0-050	BPI 8M4A5P-2K-00-KPXL0-050
BPI004C	BPI004U
BPI 4M4A5P-2K-00-KPXB0-100	BPI 8M4A5P-2K-00-KPXL0-100
BPI004E	BPI004W
BPI 4M4A5P-2K-00-KPXB0-150	BPI 8M4A5P-2K-00-KPXL0-150

23,5







Passive splitters M8 Passive splitters M12

Connectors M12 Connectors M23 Accessories

M12, 4-pin with M23 plug connection, LED more added value

M12

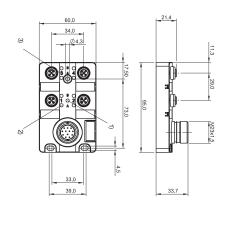
A robust solution!

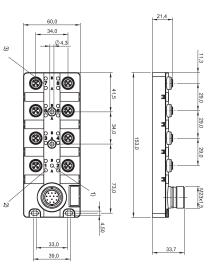
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View of female/ male side		
Version	4-way	8-way
Rated power supply U_e	24 V DC	24 V DC
Power supply U _s	1030 V DC	1030 V DC
Function indicator	Yes	Yes
Power indicator	Green LED	Green LED
Sensor connection	4-pin female, M12×1	4-pin female, M12×1
Controller connection	M23 connector	M23 connector
Number of connections	4	8
Current load capacity	2 A	2 A
Total current	6 A	6 A
Housing material	PBT, GF	PBT, GF
Degree of protection as per IEC 60529	IP 67 (when connected)	IP 67 (when connected)
Ambient temperature range T _a	−5+60 °C	–5+60 °C
Version	PNP normally open (NO)	PNP normally open (NO)
Recommended connector - port	BCCM414	BCCM414
M23 recommended connectors	M23 12-pin BCC M61C, page 202	M23 12-pin BCC M61C, page 202

Ordering code

Part number BPI004Y BPI 4M4A4P-2K-00-SM6CT

BPI0050 BPI 8M4A4P-2K-00-SM6CT





Passive Splitters M12, 5-pin with M23 plug connection, LED

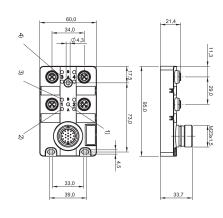
	a second and a second and a second a se
4-way	8-way
24 V DC	24 V DC
1030 V DC	1030 V DC
Yes	Yes
Green LED	Green LED
5-pin female, M12×1	5-pin female, M12×1
M23 connector	M23 connector
4	8
2 A	2 A
6 A	6 A
PBT, GF	PBT, GF
IP 67 (when connected)	IP 67 (when connected)
−5+60 °C	−5+60 °C
PNP normally open/normally closed (NO/NC) ////	PNP normally open/normally closed (NO/NC) /- / - /- /- /- /- /- /- /- /- /- /- /-
BCCM415	BCCM415
M23 19-pin BCC M61L, page 203	M23 19-pin BCC M61L, page 203
Ordering code	

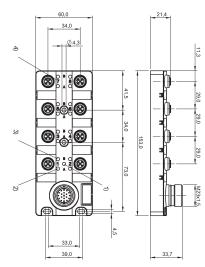
Ordering code Part number

BPI004Z

BPI 4M4A5P-2K-00-SM6LT

BPI0051 BPI 8M4A5P-2K-00-SM6LT







Passive splitters M8 Passive splitters M12

Connectors M12 Connector M23 Accessories

Passive Splitters M12 female straight connector, 8-pin M12 female straight connector, 12-pin

Black

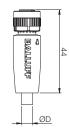
Gray

Gray

Gray

		()		
View of female/ male side			$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}\\ \end{array}\\ \begin{array}{c} \end{array}\\ \end{array}$	1 2 2 3 2 4 5 6 7 6 8 9 10 11 12 12
Rated power supply	v U.		250 V DC	250 V DC
Power supply U _s	, - _е		1830 V DC	1830 V DC
Cable			Permanently molded PUR/PVC	Permanently molded PUR/PVC
No. of wires × cross	s-section		8×0.25 mm ²	12×0.25 mm ²
Housing material			PUR	PUR
Degree of protectio	n as per IEC	60529	IP 67	IP 67
Ambient temperatu			–25+85° C	–25+85° C
Version			BPI, M8, 3-pin, 4-way	BPI, M8, 3-pin, 8-way, BIC
Cable material	Color	Length	Ordering code Part number	
PUR	Black	2 m	BCC06K1	BCC06KF
			BCC M418-0000-1A-044-PX0825-020	BCC M41C-0000-1A-049-PX0C14-020
PUR	Black	5 m	BCC06K2	BCC06KH

	Part number	
2 m	BCC06K1	BCC06KF
	BCC M418-0000-1A-044-PX0825-020	BCC M41C-0000-1A-049-PX0C14-020
5 m	BCC06K2	BCC06KH
	BCC M418-0000-1A-044-PX0825-050	BCC M41C-0000-1A-049-PX0C14-050
10 m	BCC06K3	BCC06KJ
	BCC M418-0000-1A-044-PX0825-100	BCC M41C-0000-1A-049-PX0C14-100
2 m	BCC06K7	BCC06KK
	BCC M418-0000-1A-044-VX8825-020	BCC M41C-0000-1A-049-VX8C14-020
5 m	BCC06K8	BCC06KL
	BCC M418-0000-1A-044-VX8825-050	BCC M41C-0000-1A-049-VX8C14-050
10 m	BCC06K9	BCC06KM
	BCC M418-0000-1A-044-VX8825-100	BCC M41C-0000-1A-049-VX8C14-100









PUR

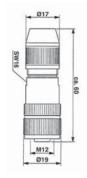
PVC

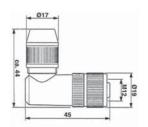
PVC

PVC



View of female/		1
male side		
Rated power supply U _e	250 V DC	250 V DC
Power supply U _s	1830 V DC	1830 V DC
Cable	48 mm	48 mm
No. of wires × cross-section	8×0.140.25 mm ²	8×0.140.25 mm ²
Housing material	Brass	Brass
Degree of protection as per IEC 60529	IP 67	IP 67
Ambient temperature range T _a	–25+85° C	–25+85° C
Version	BPI, M8, 3-pin, 8-way, BIC	BPI, M8, 3-pin, 8-way, BIC
	Ordering code	
	Part number	
	BCC04MC	BCC050F
	BCC M478-0000-1A-000-43X834-000	BCC M488-0000-1A-000-43X834-000







Product topology Passive splitters M8 Passive splitters M12 Connectors M12 Connectors

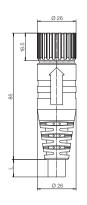
M23 Accessories

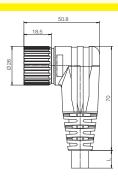
Passive Splitters M23 female connector, straight or right-angle, 12-pin

CE		
View of female/ male side	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{pmatrix} 1 & 9 & 0^{8} \\ 2 & 0^{10} & 0^{12} & 07 \\ 3^{0} & 0 & 0^{12} & 07 \\ 3^{0} & 0 & 11 & 0 & 0 \\ 4 & 5 & 5 & 5 \\ 4 & 5 & 5 & 5 \\ \end{array}$
Rated power supply U _e	240 V DC	240 V DC
Power supply U _s	1830 V DC	1830 V DC
Cable	Permanently molded PUR	Permanently molded PUR
No. of wires × cross-section	8×0.50 mm ² and 3×1.0 mm ²	8×0.50 mm ² and 3×1.0 mm ²
Housing material	TPU	TPU
Degree of protection as per IEC 60529	IP 67	IP 67
Ambient temperature range T _a	–25+80° C	–25+80° C
Version	BPI, M12, 4-pin, 4/8-way	BPI, M12, 4-pin, 4/8-way

Cable material	Color	Length
PUR	Black	2 m
PUR	Black	5 m
PUR	Black	10 m

	Ordering code					
	Part number					
	BCC06KN	BCC06KT				
	BCC M61C-0000-10-065-PX0BP4-020	BCC M62C-0000-10-065-PX0BP4-020				
BCC06KP		BCC06KU				
	BCC M61C-0000-10-065-PX0BP4-050	BCC M62C-0000-10-065-PX0BP4-050				
	BCC06KR	BCC06KW				
	BCC M61C-0000-10-065-PX0BP4-100	BCC M62C-0000-10-065-PX0BP4-100				





M23 female connector, straight or right-angle, 19-pin





120 V DC 18...30 V DC Permanently molded PUR 16×0.50 mm^2 and 3×1.0 mm^2 TPU IP 67 –25...+80° C BPI, M12, 5-pin, 4/8-way

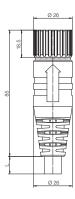
Ordering code				
Part number				
BCC06KY				
BCC M61L-0000-10-022-PX0LP4-020				
BCC06KZ				
BCC M61L-0000-10-022-PX0LP4-050				
BCC06L0				
BCC M61L-0000-10-022-PX0LP4-100				

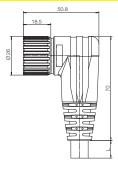




120 V DC 18...30 V DC Permanently molded PUR 16 $\times 0.50~mm^2$ and 3 $\times 1.0~mm^2$ TPU IP 67 –25...+80° C BPI, M12, 5-pin, 4/8-way

BCC06L1 BCC M62L-0000-10-022-PX0LP4-020 BCC06L2 BCC M62L-0000-10-022-PX0LP4-050 BCC06L3 BCC M62L-0000-10-022-PX0LP4-100



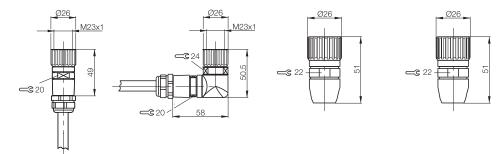




Product topology Passive splitters M8 Passive splitters M12 Connectors M12 Connectors M23 Accessories

Passive Splitters M23 female connector, straight or right-angle, 19-pin or 12-pin

			Service of the servic		
View o male s	f female/ ide	$\begin{array}{c} 1 & 0 & 12 & 11 \\ 2 & 0 & 0 & 18 & 010 \\ 3 & 0 & 140 & 010 & 170 & 03 \\ 3 & 0 & 140 & 010 & 170 & 03 \\ 40 & 150 & 0 & 08 \\ 0 & 0 & 0 & 7 & 0 \\ 0 & 0 & 0 & 7 \\ 0 & 0 & 0 & 7 \end{array}$	$\begin{array}{c} 12 & 0 \\ 2^{\circ} O_{0} & 0^{\circ} O_{0} \\ 2^{\circ} O_{0} & 0^{\circ} O_{1} \\ 3O_{14} O_{0} & 0^{\circ} O_{1} \\ 4O_{15} O_{0} & 0^{\circ} O_{0} \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	$\begin{array}{c} 1 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 \\ 3 & 0 & 1 & 0 & 0 & 0 \\ 4 & 0 & 1 & 0 & 0 & 0 \\ 4 & 0 & 1 & 0 & 0 & 0 \\ 8 & 0 & 0 & 7 \\ 0 & 0 & 0 & 0 \\ 8 & 0 & 0 & 7 \end{array}$	$ \begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0^2 & 0 & 7 \\ 2 & 0 & 0 & 0^2 & 0 & 7 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ 4 & 5 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0$
Descrij	otion	BKS-S196 Female straight, 19-pin	BKS-S197 Female right-angle, 19-pin	Connector, 19-pin, Female	Connector, 12-pin, Female
Versior	١	8x splitter connection	8x splitter connection	Customized assembly	Customized assembly
	Ordering code			BCC00TE	BCC03Y4
	Part number			BKS-S87-00	BKS-S264-00
Length	Ordering code	BCC02CR	BCC02E0		
5 m	Part number	BKS-S196-22-PU-05	BKS-S197-22-PU-05		
Length	Ordering code	BCC02CT	BCC02E1		
10 m	Part number	BKS-S196-22-PU-10	BKS-S197-22-PU-10		
Length	Ordering code	BCC02CU	BCC02E2		
20 m	Part number	BKS-S196-22-PU-20	BKS-S197-22-PU-20		
Power	supply U _B	1830 V DC	1830 V DC	1830 V DC	1830 V DC
Cable		Permanently connected PUR	Permanently connected PUR	Max. 10.5 mm	Max. 10.5 mm
Rated	operating current I _e	16×0.34 mm ² and 3×0.75 mm ²	16×0.34 mm ² and 3×0.75 mm ²	19×1.0 mm ²	12×1.0 mm ²
Degree of	protection as per IEC 60529	IP 67	IP 67	IP 67	IP 67
Ambien	t temperature range T_a	–20+80 °C	−20+80 °C	−40+125 °C	–40+125 °C
11	ig material	Brass	Brass	Brass	Brass



Marking sleeve For labeling connectors

BAM IA-CC-002-01



