



Continuous transmission security
and data transparency

RFID SYSTEM UHF (860/960 MHz) BIS U

The BIS U UHF systems from Balluff ensure data transparency and traceability of your automation processes. UHF is a standard technology for identification solutions covering all processes. They help to achieve fast detection of tag information and continuous transmission security. By querying decentrally stored product- and process-data, UHF is a central component of traceability applications. Our UHF BIS U systems provide permanent data transparency in your entire delivery chain.

Features

- Problem-free integration in applications via globally used standard interfaces
- Corresponds to the global standard ISO 18000-6C and EPC Gen2 Class 1
- Flexible use due to a wide range of different combinations of data carriers and antennas
- Ranges up to 6 m and more
- Bulk capture for simultaneous scanning of many data carriers (tags)
- Suitable for attachment to traditional control systems via bus interfaces and higher level IT systems
- Complete tailored system solutions realizable
- Many accessories for integration into a variety of applications





Europe: 865-868 MHz		BISO13P BIS U-142-06/CA-M8-GY	
America/Asia: 902-928 MHz	BISO178 BIS U-142-A0/C1M-GY		
worldwide: 860-960 MHz			
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	902...928 MHz	865...868 MHz	
Dimension	Ø 17.2 x 14 mm	Ø 22 x 26 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	512 Bit	
EPC memory, read/write	96 Bit	96 Bit	
TID memory, read-only	64 Bit	64 Bit	
Antenna type	Dipol	Dipol	
Installation	on metal	on metal	
Storage temperature	-25...95 °C	-25...95 °C	
Storage temperature temporary	—	—	
Ambient temperature	-25...85 °C	-25...85 °C	
Housing material	PA 12, GF30	Steel, data carrier: PA 12-GF30 gray	
Protection degree	IP68	IP68	
Approval/Conformity	CE	CE	
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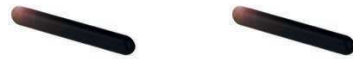
	BISO13R BIS U-142-07/CA-M8-GY	BISO01L BIS U-100-01/CA		
			BISO0RC BIS U-100-02/CA	
				BISO0WH BIS U-101-04/CA
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
902...928 MHz	840...960 MHz	840...960 MHz	840...960 MHz	860...960 MHz
Ø 22 x 26 mm	37.2 x 7 x 127 mm	37.2 x 7 x 127 mm	37.2 x 7 x 127 mm	51.5 x 6.4 x 51.5 mm
EEPROM	EEPROM	EEPROM	EEPROM	EEPROM
512 Bit	512 Bit	512 Bit	512 Bit	512 Bit
96 Bit	96 Bit	96 Bit	96 Bit	240 Bit
64 Bit	64 Bit	64 Bit	64 Bit	64 Bit
Dipol	Dipol	Dipol	Dipol	Dipol
on metal	metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)
-25...95 °C	-40...85 °C	-40...85 °C	-40...85 °C	-40...85 °C
—	—	—	—	—
-25...85 °C	-40...85 °C	-40...85 °C	-40...85 °C	-20...85 °C
Steel, data carrier: PA 12-GF30 gray	PA 12, GF30	PA 12, GF30	PA 12, GF30	ABS
IP68	IP67	IP67	IP67	IP68
CE	CE	CE	CE	CE
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Europe: 865-868 MHz		BISO16N BIS U-104-A0/COM	
America/Asia: 902-928 MHz			
worldwide: 860-960 MHz	BISO00WE BIS U-102-05/CA		
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	860...960 MHz	866...868 MHz	
Dimension	52 x 11.5 x 128 mm	6.1 x 2.6 x 8.6 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	512 Bit	
EPC memory, read/write	240 Bit	96 Bit	
TID memory, read-only	64 Bit	64 Bit	
Antenna type	Dipol	Dipol	
Installation	metal-free (clear zone)	on metal	
Storage temperature	-40...85 °C	-20...85 °C	
Storage temperature temporary	—	—	
Ambient temperature	-20...85 °C	-20...85 °C	
Housing material	ABS	Oxide ceramics	
Protection degree	IP68	IP68	
Approval/Conformity	CE	CE, RoHS	
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		BISO16R BIS U-105-A0/COM	
BISO16P BIS U-104-A0/C1M			BISO16T BIS U-105-A0/C1M
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	
902...928 MHz	866...868 MHz	902...928 MHz	
6.1 x 2.6 x 8.6 mm	7.1 x 3.1 x 13.1 mm	7.1 x 3.1 x 13.1 mm	
EEPROM	EEPROM	EEPROM	
512 Bit	512 Bit	512 Bit	
96 Bit	96 Bit	96 Bit	
64 Bit	64 Bit	64 Bit	
Dipol	Dipol	Dipol	
on metal	on metal	on metal	
-20...85 °C	-20...85 °C	-20...85 °C	
—	—	—	
-20...85 °C	-20...85 °C	-20...85 °C	
Oxide ceramics	Oxide ceramics	Oxide ceramics	
IP68	IP68	IP68	
CE, RoHS	CE, RoHS	CE, RoHS	
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Europe: 865-868 MHz	BIS016Y BIS U-106-A0/COM		
America/Asia: 902-928 MHz		BIS016Z BIS U-106-A0/C1M	
worldwide: 860-960 MHz			
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	866...868 MHz	902...928 MHz	
Dimension	9.75 x 3.6 x 63 mm	9.75 x 3.6 x 63 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	512 Bit	
EPC memory, read/write	96 Bit	96 Bit	
TID memory, read-only	64 Bit	64 Bit	
Antenna type	Dipol	Dipol	
Installation	on metal	on metal	
Storage temperature	-40...105 °C	-40...105 °C	
Storage temperature temporary	—	—	
Ambient temperature	-40...85 °C	-40...85 °C	
Housing material	Thermoplast Plastic	Thermoplast Plastic	
Protection degree	IP68	IP68	
Approval/Conformity	CE, RoHS	CE, RoHS	
Productview	Page 28	Page 28	



	BIS0170 BIS U-107-A0/COM			
		BIS0171 BIS U-107-A0/C1M		
			BIS0174 BIS U-103-M2/CAM	BIS0172 BIS U-108-M2/CAM
	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
	865...868 MHz	902...928 MHz	860...940 MHz	860...940 MHz
	38 x 9.5 x 48.5 mm	38 x 9.5 x 48.5 mm	25 x 12.85 x 110 mm	15 x 12.5 x 80 mm
	EEPROM	EEPROM	EEPROM	EEPROM
	512 Bit	512 Bit	512 Bit	512 Bit
	96 Bit	96 Bit	128 Bit	128 Bit
	64 Bit	64 Bit	96 Bit	96 Bit
	Dipol	Dipol	Dipol	Dipol
	on metal	on metal	on metal	on metal
	-40...85 °C	-40...85 °C	-40...85 °C	-40...85 °C
	—	—	—	—
	-40...85 °C	-40...85 °C	-40...85 °C	-40...85 °C
	Thermoplast Plastic	Thermoplast Plastic	ABS	ABS
	IP68	IP68	IP68	IP68
	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS
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Europe: 865-868 MHz			
America/Asia: 902-928 MHz			
worldwide: 860-960 MHz	BISO173 BIS U-109-M2/CAM	BISO18F BIS U-112-M4/CAA	
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	860...930 MHz	860...960 MHz	
Dimension	48 x 12.6 x 51 mm	29.3 x 19.2 x 66.2 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	0 Bit	
EPC memory, read/write	128 Bit	96 Bit	
TID memory, read-only	96 Bit	48 Bit	
Antenna type	Dipol	Dipol	
Installation	on metal	metal-free (clear zone)	
Storage temperature	-40...85 °C	-40...85 °C	
Storage temperature temporary	—	—	
Ambient temperature	-40...85 °C	-40...85 °C	
Housing material	ABS	PVDF, PA 12, GF30	
Protection degree	IP68	IP67	
Approval/Conformity	CE, RoHS	CE	
Productview	Page 29	Page 29	



		BISO16K BIS U-110-A0/C0A	
			BISO16L BIS U-110-A0/C1A
BISO18H BIS U-113-M4/CAA	BISO0U4 BIS U-100-01/CA-SA1		
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
860...960 MHz	840...960 MHz	865...868 MHz	902...928 MHz
38.1 x 19 x 51.3 mm	37.4 x 24.8 x 130.2 mm	12 x 1.6 x 60 mm	12 x 1.6 x 60 mm
EEPROM	EEPROM	EEPROM	EEPROM
0 Bit	512 Bit	512 Bit	512 Bit
96 Bit	96 Bit	96 Bit	96 Bit
48 Bit	64 Bit	64 Bit	64 Bit
Dipol	Dipol	Dipol	Dipol
metal-free (clear zone)	on metal	metal-free (clear zone)	metal-free (clear zone)
-40...85 °C	-40...85 °C	-40...55 °C	-40...55 °C
—	—	—	—
-40...85 °C	-40...85 °C	-20...55 °C	-20...55 °C
PVDF, PA 12, GF30	PA 12, GF30	Silicone	Silicone
IP67	IP67	IP68	IP68
CE	CE	CE	CE
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Europe: 865-868 MHz	BIS016U BIS U-180-A0/COM		
America/Asia: 902-928 MHz		BIS016W BIS U-180-A0/C1M	
worldwide: 860-960 MHz			
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	866...868 MHz	902...928 MHz	
Dimension	5.95 x 1.3 x 57.1 mm	5.95 x 1.3 x 57.1 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	512 Bit	
EPC memory, read/write	96 Bit	96 Bit	
TID memory, read-only	64 Bit	64 Bit	
Antenna type	Dipol	Dipol	
Installation	on metal	on metal	
Storage temperature	-40...120 °C	-40...120 °C	
Storage temperature temporary	—	—	
Ambient temperature	-40...85 °C	-40...85 °C	
Housing material	Epoxy resin-glass fiber, flame-retardant	Epoxy resin-glass fiber, flame-retardant	
Protection degree	IP68	IP68	
Approval/Conformity	CE, RoHS	CE, RoHS	
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BIS016M BIS U-111-M2/CAA	BIS00WF BIS U-101-04/CA-HT	BIS00WC BIS U-102-05/CA-HT	BIS0163 BIS U-150-N4/CAA
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
860...960 MHz	860...960 MHz	860...960 MHz	860...960 MHz
54 x 0.84 x 85.7 mm	51.5 x 6.4 x 51.5 mm	52 x 11.5 x 128 mm	20 x 44.45 mm
EEPROM	EEPROM	EEPROM	EEPROM
512 Bit	512 Bit	512 Bit	0 Bit
128 Bit	240 Bit	240 Bit	128 Bit
96 Bit	64 Bit	64 Bit	64 Bit
Dipol	Dipol	Dipol	Dipol
metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)
-25...50 °C	-40...85 °C	-40...85 °C	-20...80 °C
—	220 °C 1 x 1000 h, 1500 x 30 min	220 °C 1 x 1000 h, 1500 x 30 min	—
-25...50 °C	-40...85 °C	-40...85 °C	-20...80 °C
PVC	PPS	PPS	Paper
IP68	IP68	IP68	—
CE	CE	CE	CE
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Europe: 865-868 MHz			
America/Asia: 902-928 MHz			
worldwide: 860-960 MHz	BIS0165 BIS U-152-M3/CAA	BIS0166 BIS U-153-M0/CAA	
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	860...960 MHz	860...960 MHz	
Dimension	17 x 73 mm	9 x 113 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	32 Bit	32 Bit	
EPC memory, read/write	128 Bit	128 Bit	
TID memory, read-only	96 Bit	96 Bit	
Antenna type	Dipol	Dipol	
Installation	metal-free (clear zone)	metal-free (clear zone)	
Storage temperature	-20...80 °C	-20...80 °C	
Storage temperature temporary	—	—	
Ambient temperature	-20...80 °C	-20...80 °C	
Housing material	Paper	Paper	
Protection degree	—	—	
Approval/Conformity	CE	CE	
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			BIS016A BIS U-157-A0/COM	
				BIS016C BIS U-157-A0/C1M
	BIS0167 BIS U-154-M0/CAA	BIS0169 BIS U-156-M0/CAA		
	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
	860...960 MHz	860...960 MHz	865...868 MHz	902...928 MHz
	15 x 97 mm	53 x 53 mm	22.5 x 1.65 x 50 mm	22.5 x 1.65 x 50 mm
	EEPROM	EEPROM	EEPROM	EEPROM
	32 Bit	32 Bit	512 Bit	512 Bit
	128 Bit	128 Bit	96 Bit	96 Bit
	96 Bit	96 Bit	64 Bit	64 Bit
	Dipol	Dipol	Dipol	Dipol
	metal-free (clear zone)	metal-free (clear zone)	on metal	on metal
	-40...85 °C	-40...85 °C	-25...95 °C	-25...95 °C
	—	—	—	—
	-40...85 °C	-40...85 °C	-20...85 °C	-20...85 °C
	Paper	Paper	PET	PET
	—	—	IP67	IP67
	CE	CE	CE, REACH regulation (EU), RoHS	CE, REACH regulation (EU), RoHS
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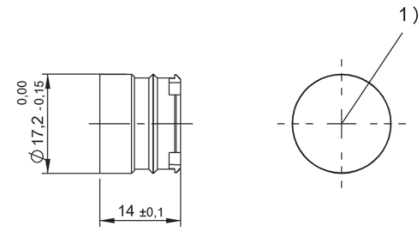


Europe: 865-868 MHz	BISO16E BIS U-158-A0/COM-HT		
America/Asia: 902-928 MHz		BISO16F BIS U-158-A0/C1M-HT	
worldwide: 860-960 MHz			
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	865...868 MHz	902...928 MHz	
Dimension	25 x 1.65 x 88 mm	25 x 1.65 x 88 mm	
Memory type	EEPROM	EEPROM	
User data, read/write	512 Bit	512 Bit	
EPC memory, read/write	96 Bit	96 Bit	
TID memory, read-only	64 Bit	64 Bit	
Antenna type	Dipol	Dipol	
Installation	on metal	on metal	
Storage temperature	-25...95 °C	-25...95 °C	
Storage temperature temporary	160 °C 3 x 30 min	160 °C 3 x 30 min	
Ambient temperature	-30...70 °C	-30...70 °C	
Housing material	PEN	PEN	
Protection degree	IP67	IP67	
Approval/Conformity	CE, REACH regulation (EU), RoHS	CE, REACH regulation (EU), RoHS	
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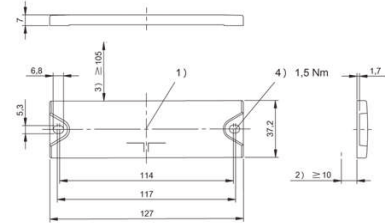
	BISO16J BIS U-160-A0/CA6	BISO164 BIS U-151-M2/CAA	BISO168 BIS U-155-M2/CAA	BISO16H BIS U-159-M2/CAA
	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
	860...960 MHz	860...960 MHz	860...960 MHz	850...960 MHz
	25.4 x 0.18 x 80 mm	54 x 34 mm	27 x 97 mm	23 x 1 x 100 mm
	EEPROM	EEPROM	EEPROM	EEPROM
	512 Bit	512 Bit	512 Bit	512 Bit
	96 Bit	128 Bit	128 Bit	128 Bit
	64 Bit	96 Bit	96 Bit	96 Bit
	Dipol	Dipol	Dipol	Dipol
	metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)	metal-free (clear zone)
	-50...85 °C	-40...85 °C	-40...85 °C	-40...85 °C
	—	—	—	—
	-50...85 °C	-40...85 °C	-40...85 °C	-25...70 °C
	PET	Paper	Paper	PET
	IP67	—	—	IP68
	CE, REACH regulation (EU), RoHS	CE	CE	CE, REACH regulation (EU), RoHS
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28 | RFID | UHF (860/960 MHz)



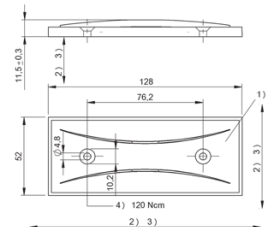
1) Sensing surface

BISO178



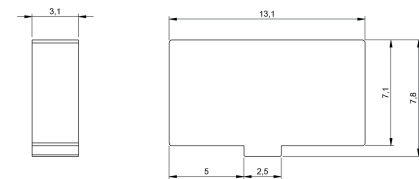
1) Sensing surface, 2) Clear zone, 3) Clear zone surrounding, 4) Tightening torque

BISO00L, BISO0RC



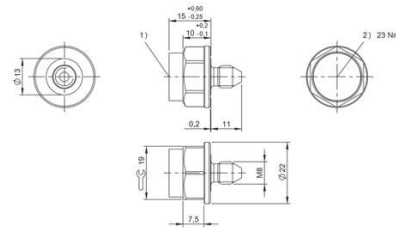
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head, 4) Tightening torque

BISO0WE, BISO0WC



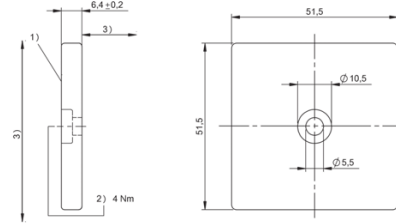
1) Sensing surface

BISO16R, BISO16T



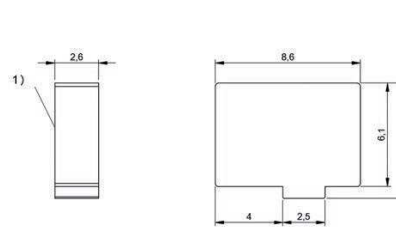
1) Sensing surface, 2) Tightening torque

BISO13P, BISO13R



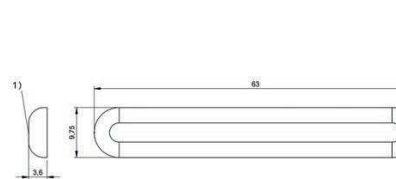
1) Sensing surface, 2) Tightening torque, 3) see R/W head table

BISO0WH, BISO0WF



1) Sensing surface

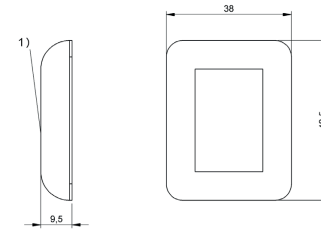
BISO16M, BISO16P



1) Sensing surface

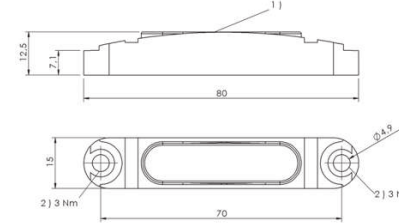
BISO16V, BISO16Z

UHF data carriers (860/960 MHz) | 29



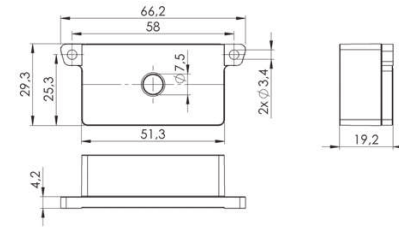
1) Sensing surface

BISO170, BISO171

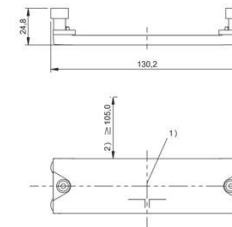


1) Sensing surface, 2) Tightening torque

BISO172

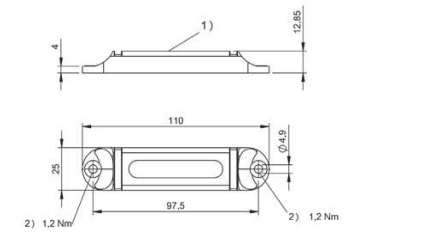


BISO18F



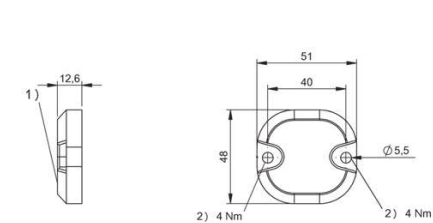
1) Sensing surface, 2) Clear zone surrounding

BISO0U4



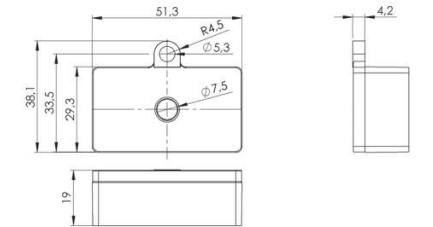
1) Sensing surface, 2) Tightening torque

BISO174

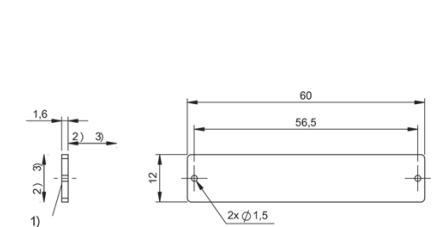


1) Sensing surface, 2) Tightening torque

BISO173



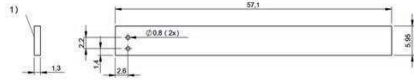
BISO18H



1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

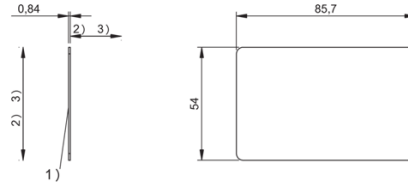
BISO16K, BISO16L

30 | RFID | UHF (860/960 MHz)



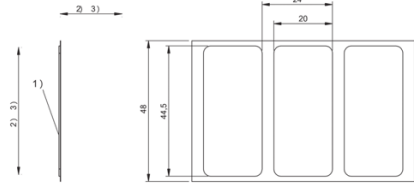
1) Sensing surface

BISO16U, BISO16W



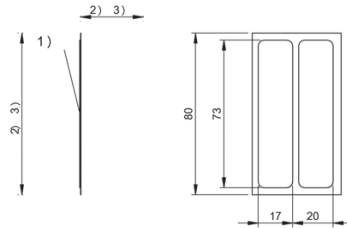
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO16M



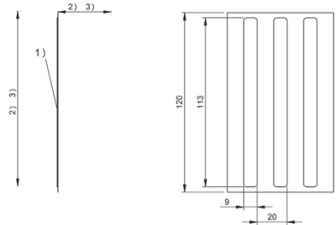
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO163



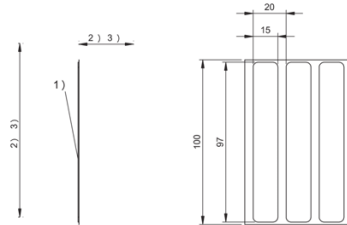
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO165



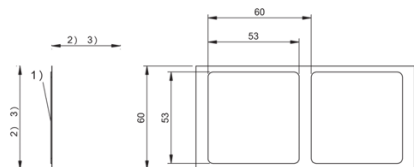
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO166



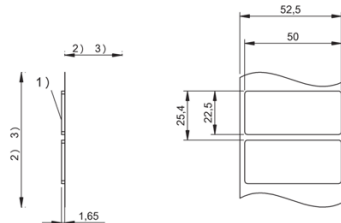
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO167



1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

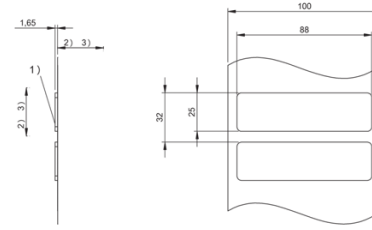
BISO169



1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

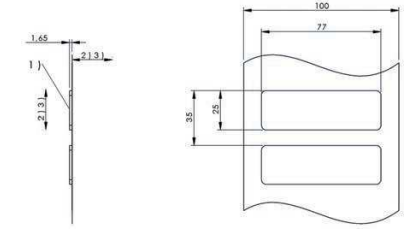
BISO16A, BISO16C

UHF data carriers (860/960 MHz) | 31



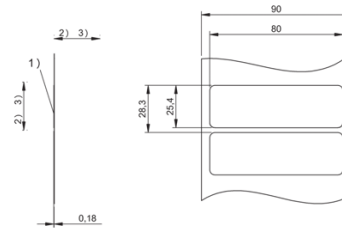
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO16E



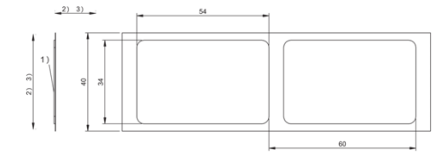
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO16F



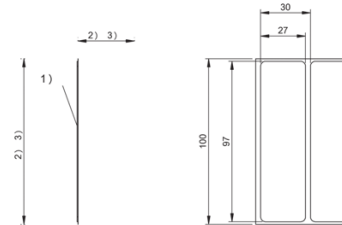
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO16J



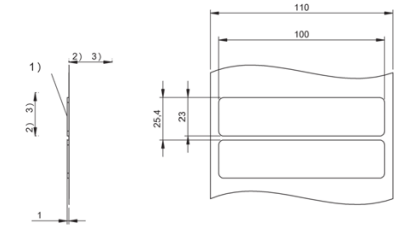
1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO164



1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO168



1) Sensing surface, 2) Clear zone, 3) see corresponding R/W head

BISO16H



Europe: 865...868 MHz	BISO15Z BIS VU-320-C0-S4		
USA/Canada/Mexico: 902...928 MHz		BISO15Y BIS VU-320-C1-S4	
China: 920.5...924.5 MHz			
South Korea: 917...921 MHz			
Japan: 916.8...92.4 MHz			
Australia: 920.25...925.75 MHz			
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Radio license	Europe	USA, Canada, Mexico	
Dimension	130 x 50.5 x 130 mm	130 x 50.5 x 130 mm	
Antenna type	Patch	Patch	
Polarization	circular	circular	
Output power adjustable	5 dBm...24 dBm (3.2 mW...250 mW)	7 dBm...26 dBm (5 mW...400 mW)	
Connection	M12x1-Male, 4-pole, A-coded	M12x1-Male, 4-pole, A-coded	
Housing material	PC ABS, zinc, die-cast, (connector)	PC ABS, zinc, die-cast, (connector)	
Interface	RS485	RS485	
Operating voltage Ub	24 V DC LPS Class 2	24 V DC LPS Class 2	
Ambient temperature	-20...55 °C	-20...55 °C	
Protection degree	IP67	IP67	
Approval/Conformity	CE, ETSI EN 302 208, UL Listed	FCC Part 15, IC RSS-210, UL Listed	
Productview	Page 36	Page 36	



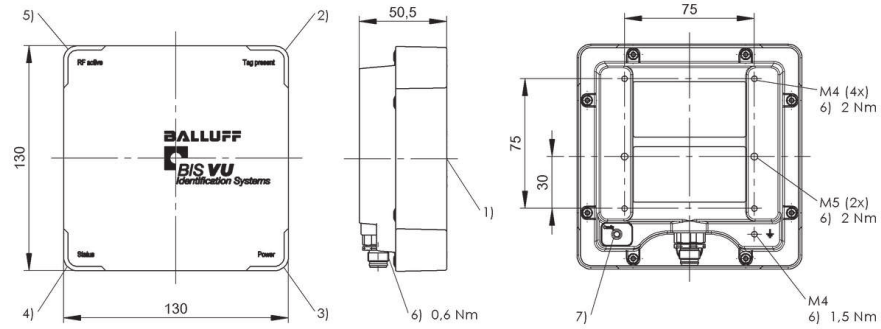
BISO18Z BIS VU-320-C2-S4			
	BISO190 BIS VU-320-C4-S4		
		BISO191 BIS VU-320-C5-S4	
			BISO192 BIS VU-320-C7-S4
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
China	South Korea	Japan	Australia
130 x 50.5 x 130 mm	130 x 50.5 x 130 mm	130 x 50.5 x 130 mm	130 x 50.5 x 130 mm
Patch	Patch	Patch	Patch
circular	circular	circular	circular
5 dBm...24 dBm (3.2 mW...250 mW)	7 dBm...26 dBm (5 mW...400 mW)	7 dBm...25 dBm (5 mW...320 mW)	7 dBm...26 dBm (5 mW...400 mW)
M12x1-Male, 4-pole, A-coded	M12x1-Male, 4-pole, A-coded	M12x1-Male, 4-pole, A-coded	M12x1-Male, 4-pole, A-coded
PC ABS, zinc, die-cast, (connector)	PC ABS, zinc, die-cast, (connector)	PC ABS, zinc, die-cast, (connector)	PC ABS, zinc, die-cast, (connector)
RS485	RS485	RS485	RS485
24 V DC LPS Class 2	24 V DC LPS Class 2	24 V DC LPS Class 2	24 V DC LPS Class 2
-20...55 °C	-20...55 °C	-20...55 °C	-20...55 °C
IP67	IP67	IP67	IP67
CMIIT-Radio Transmiss. Equipm., UL Listed	KC, UL Listed	ARIB T106, MIC Specified Radio Equipment, UL Listed	AS/NZS 4268, UL Listed
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Europe: 865...868 MHz	BIS00PO BIS U-301-C0-TNCB		
America/Asia: 902...928 MHz		BIS00TY BIS U-301-C1-TNCB	
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Working frequency	865...868 MHz	902...928 MHz	
Radio license	—	—	
Dimension	133 x 18.4 x 133 mm	133 x 18.4 x 133 mm	
Antenna type	Patch	Patch	
Polarization	circular	circular	
Output power adjustable	—	—	
Connection	—	—	
Housing material	PC	PC	
Interface	—	—	
Operating voltage Ub	—	—	
Ambient temperature	-30...70 °C	-30...70 °C	
Protection degree	IP67	IP67	
Approval/Conformity	—	—	
Productview	Page 36	Page 36	

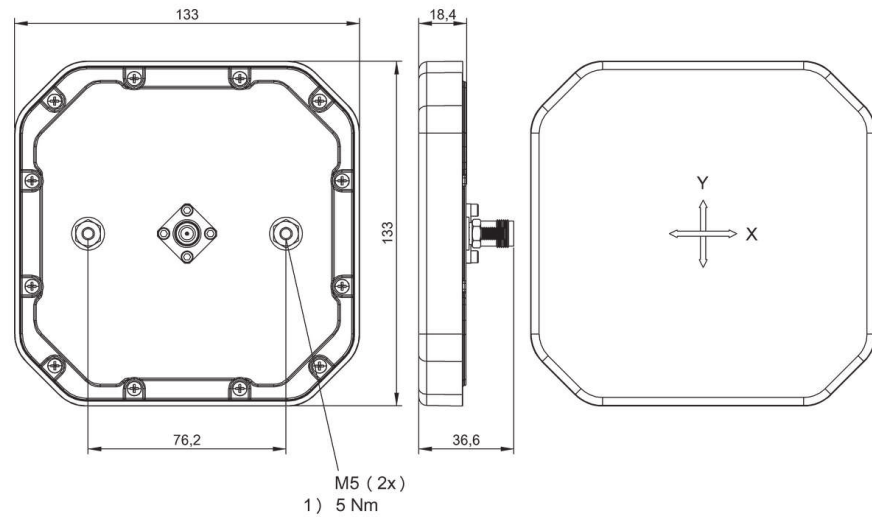


	BIS00TZ BIS U-302-C0-TNCB		
		BIS00UO BIS U-302-C1-TNCB	
	UHF (860...960 MHz)	UHF (860...960 MHz)	
	865...868 MHz	902...928 MHz	
	—	—	
	271 x 42.5 x 271 mm	271 x 42.5 x 271 mm	
	Patch	Patch	
	circular	circular	
	—	—	
	—	—	
	Aluminum, antenna hood: polymer blend	Aluminum, antenna hood: polymer blend	
	—	—	
	—	—	
	-20...55 °C	-20...55 °C	
	IP65	IP65	
	—	—	
	Page 37	Page 37	



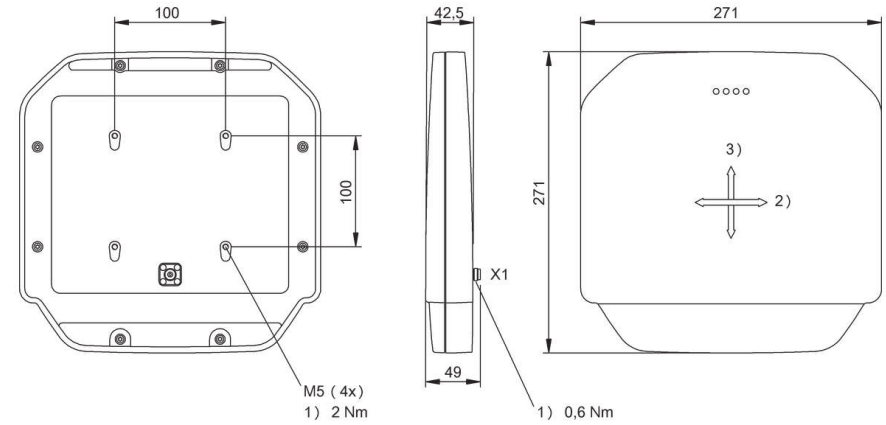
1) Sensing surface, 2) LED (Tag present), 3) LED (Power), 4) LED (Status), 5) LED (RF active), 6) Tightening torque, 7) Button (Config)

BIS015Z, BIS015Y, BIS018Z, BIS0190, BIS0191, BIS0192



1) Tightening torque

BIS00PO, BIS00TY



1) Tightening torque, 2) horizontal, 3) vertical

BIS00TZ, BIS00UO



Profibus DP Slave, galvanically isolated	BIS00T3 BIS V-6102-019-C001	
Ethernet/IP		
Product Group	Multi-Frequency Processors (BIS V)	
Working frequency	–	
Radio license	–	
Interface	Profibus DP Slave, galvanically isolated	
Supported RFID technologies	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	–	
Operating voltage Ub	24 V DC LPS Class 2	
Housing material	Zinc, die-cast	
Ambient temperature	0...60 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, UL Listed	
Productview	Page 62	



BIS012E BIS V-6102-019-C101		
	BIS012F BIS V-6106-034-C002	BIS014C BIS V-6106-034-C102
Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)
–	–	–
–	–	–
Profibus DP Slave, galvanically isolated	Ethernet/IP	Ethernet/IP
LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)
4	4	4
–	–	–
24 V DC LPS Class 2	24 V DC LPS Class 2	24 V DC LPS Class 2
Zinc, die-cast	Zinc, die-cast	Zinc, die-cast
0...60 °C	0...60 °C	0...60 °C
IP65 with connector	IP65 with connector	IP65 with connector
CE, UL Listed	CE, UL Listed	CE, UL Listed
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Ethernet/IP	BIS0122 BIS V-6106-034-C004	
Ethernet TCP/IP, USB		
Product Group	Multi-Frequency Processors (BIS V)	
Working frequency	–	
Radio license	–	
Interface	Ethernet/IP	
Supported RFID technologies	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	–	
Operating voltage Ub	24 V DC LPS Class 2	
Housing material	Zinc, die-cast	
Ambient temperature	0...60 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, UL Listed	
Productview	Page 63	



BIS0146 BIS V-6106-034-C104		
	BIS0186 BIS V-6107-039-C005	BIS0187 BIS V-6107-039-C105
Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)
–	–	–
–	–	–
Ethernet/IP	Ethernet TCP/IP, USB	Ethernet TCP/IP, USB
LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)
4	4	4
–	–	–
24 V DC LPS Class 2	24 V DC LPS Class 2	24 V DC LPS Class 2
Zinc, die-cast	Zinc, die-cast	Zinc, die-cast
0...60 °C	0...60 °C	0...60 °C
IP65 with connector	IP65 with connector	IP65 with connector
CE, UL Listed	CE, UL Listed	CE, UL Listed
Page 63	Page 63	Page 63



Ethernet TCP/IP, USB	BIS018J BIS V-6107-039-C006	
Profinet I/O (IRT), Profinet I/O (IRT), 2 port Switch		
Product Group	Multi-Frequency Processors (BIS V)	
Working frequency	–	
Radio license	–	
Interface	Ethernet TCP/IP, USB	
Supported RFID technologies	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	–	
Operating voltage Ub	24 V DC LPS Class 2	
Housing material	Zinc, die-cast	
Ambient temperature	0...60 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, UL Listed	
Productview	Page 64	



BIS018K BIS V-6107-039-C106		
	BIS013U BIS V-6108-048-C002	BIS013W BIS V-6108-048-C102
Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)	Multi-Frequency Processors (BIS V)
–	–	–
–	–	–
Ethernet TCP/IP, USB	Profinet I/O (IRT), 2 port Switch	Profinet I/O (IRT), 2 port Switch
LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)
4	4	4
–	–	–
24 V DC LPS Class 2	24 V DC LPS Class 2	24 V DC LPS Class 2
Zinc, die-cast	Zinc, die-cast	Zinc, die-cast
0...60 °C	0...60 °C	0...60 °C
IP65 with connector	IP65 with connector	IP65 with connector
CE, UL Listed	CE, UL Listed	CE, UL Listed
Page 64	Page 64	Page 64



EtherCAT	BIS00U9 BIS V-6110-063-C002	
Product Group	Multi-Frequency Processors (BIS V)	
Working frequency	–	
Radio license	–	
Interface	EtherCAT	
Supported RFID technologies	LF 125 kHz (BIS VL), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	–	
Operating voltage U _b	24 V DC LPS Class 2	
Housing material	Zinc, die-cast	
Ambient temperature	0...60 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, UL Listed	
Productview	Page 65	



	BIS0147 BIS V-6110-063-C102	
	Multi-Frequency Processors (BIS V)	
	–	
	–	
	EtherCAT	
	LF 125 kHz (BIS VL), LF 70/455 kHz (BIS C), HF 13.56 MHz (BIS VM), UHF 860/960 MHz (BIS VU)	
	4	
	–	
	24 V DC LPS Class 2	
	Zinc, die-cast	
	0...60 °C	
	IP65 with connector	
	CE, UL Listed	
	Page 65	



Europe: 865...868 MHz	BIS00M7 BIS U-6020-053-104-00-ST26	
USA/Canada/Mexico: 902...928 MHz		
Brazil: 915...928 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Europe	
Interface	RS232	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	17 dBm...30 dBm (50 mW...1 W)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Steel, aluminum	
Ambient temperature	-20...55 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, ETSI EN 302 208	
Productview	Page 66	



	BIS00R2 BIS U-6020-059-114-00-ST26		BIS013J BIS U-6026-034-114-06-ST35
		BIS00UM BIS U-6020-059-134-00-ST26	
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
USA, Canada, Mexico	Brazil	USA, Canada	USA, Canada
RS232	RS232	Ethernet/IP, galvanically isolated	Ethernet/IP, galvanically isolated
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
4	4	4	4
17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC
Steel, aluminum	Steel, aluminum	Steel, aluminum	Steel, aluminum
-20...55 °C	-20...55 °C	-20...55 °C	-20...55 °C
IP65 with connector	IP65 with connector	IP65 with connector	IP65 with connector
FCC Part 15, IC RSS-210, SCT NOM-121-SCT1-2009	Anatel 442/2006, Anatel 506/2008	FCC Part 15, IC RSS-210	FCC Part 15, IC RSS-210
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Europe: 865...868 MHz		
USA/Canada/Mexico: 902...928 MHz		
China: 920.5...924.5 MHz	BIS018N BIS U-6026-034-124-06-ST35	
Product Group	UHF (860...960 MHz)	
Radio license	China	
Interface	Ethernet/IP, galvanically isolated	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	17 dBm...30 dBm (50 mW...1 W)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Steel, aluminum	
Ambient temperature	-20...55 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CMIIT-Radio Transmiss. Equipm.	
Productview	Page 66	



BIS000A BIS U-6027-054-104-06-ST27		
	BIS00R1 BIS U-6027-060-114-06-ST27	
		BIS012R BIS U-6027-060-124-06-ST27
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
Europe	USA, Canada, Mexico, Argentina	China
Ethernet TCP/IP	Ethernet TCP/IP	Ethernet TCP/IP
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
4	4	4
17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC
Steel, aluminum	Steel, aluminum	Steel, aluminum
-20...55 °C	-20...55 °C	-20...55 °C
IP65 with connector	IP65 with connector	IP65 with connector
CE, ETSI EN 302 208	CNC, FCC Part 15, IC RSS-210, SCT NOM-121-SCT1-2009	CMIIT-Radio Transmiss. Equipm.
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Brazil: 915...928 MHz	BIS00UN BIS U-6027-060-134-06-ST27	
South Korea: 917...921 MHz		
Japan: 916.8...92.4 MHz		
Australia: 920.25...925.75 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Brazil	
Interface	Ethernet TCP/IP	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	17 dBm...30 dBm (50 mW...1 W)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Steel, aluminum	
Ambient temperature	-20...55 °C	
Protection degree	IP65 with connector	
Approval/Conformity	Anatel 442/2006, Anatel 506/2008	
Productview	Page 67	



	BIS00UR BIS U-6027-060-144-06-ST27		
		BIS012T BIS U-6027-060-154-06-ST27	
			BIS014H BIS U-6027-060-174-06-ST27
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
South Korea	Japan	Australia	
Ethernet TCP/IP	Ethernet TCP/IP	Ethernet TCP/IP	
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	
4	4	4	
17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC	
Steel, aluminum	Steel, aluminum	Steel, aluminum	
-20...55 °C	-20...55 °C	-20...55 °C	
IP65 with connector	IP65 with connector	IP65 with connector	
KC	ARIB T106, MIC Specified Radio Equipment	AS/NZS 4268	
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Europe: 865...868 MHz	BIS012Y BIS U-6028-048-104-06-ST22	
USA/Canada: 902...928 MHz		
China: 920.5...924.5 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Europe	
Interface	Profinet, galvanically isolated	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	17 dBm...33 dBm (50 mW...2 W)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Steel, aluminum	
Ambient temperature	-20...55 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, ETSI EN 302 208	
Productview	Page 67	



	BIS00ZU BIS U-6028-048-104-06-ST28		
		BIS00ZW BIS U-6028-048-114-06-ST28	
			BIS017J BIS U-6028-048-124-06-ST28
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
Europe	USA, Canada	China	
Profinet, galvanically isolated	Profinet, galvanically isolated	Profinet, galvanically isolated	Profinet, galvanically isolated
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
4	4	4	4
17 dBm...33 dBm (50 mW...2 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)	17 dBm...30 dBm (50 mW...1 W)
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC
Steel, aluminum	Steel, aluminum	Steel, aluminum	Steel, aluminum
-20...55 °C	-20...55 °C	-20...55 °C	-20...55 °C
IP65 with connector	IP65 with connector	IP65 with connector	IP65 with connector
CE, ETSI EN 302 208	FCC Part 15, IC RSS-210	CMIIT-Radio Transmiss. Equipm.	
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Brazil: 915...928 MHz	BIS0152 BIS U-6028-048-134-06-ST28	
Product Group	UHF (860...960 MHz)	
Radio license	Brazil	
Interface	Profinet, galvanically isolated	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	4	
Output power adjustable	17 dBm...30 dBm (50 mW...1 W)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Steel, aluminum	
Ambient temperature	-20...55 °C	
Protection degree	IP65 with connector	
Approval/Conformity	Anatel 442/2006, Anatel 506/2008	
Productview	Page 68	



Europe: 865...868 MHz	BIS00Z9 BIS U-620-067-101-04-S92	
USA: 902...928 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Europe	
Interface	RS485	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	1	
Output power adjustable	10 dBm...27 dBm (10 mW...500 mW)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Aluminum	
Ambient temperature	-20...50 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, ETSI EN 302 208	
Productview	Page 68	



	BIS00Z8 BIS U-620-067-101-04-ST30		
		BIS00Z7 BIS U-620-067-111-04-S92	BIS00Z6 BIS U-620-067-111-04-ST30
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
Europe	USA	USA	USA
RS485	RS485	RS485	RS485
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
1	1	1	1
10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC
Aluminum	Aluminum	Aluminum	Aluminum
-20...50 °C	-20...50 °C	-20...50 °C	-20...50 °C
IP65 with connector	IP65 with connector	IP65 with connector	IP65 with connector
CE, ETSI EN 302 208	FCC Part 15	FCC Part 15	FCC Part 15
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Europe: 865...868 MHz	BIS00Z5 BIS U-620-068-101-00-S115	
USA: 902...928 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Europe	
Interface	RS232	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	1	
Output power adjustable	10 dBm...27 dBm (10 mW...500 mW)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Aluminum	
Ambient temperature	-20...50 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, ETSI EN 302 208	
Productview	Page 69	



	BIS00Z4 BIS U-620-068-101-00-ST29		
		BIS00Z3 BIS U-620-068-111-00-S115	BIS00Z2 BIS U-620-068-111-00-ST29
UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
Europe	USA	USA	USA
RS232	RS232	RS232	RS232
UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
1	1	1	1
10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)
19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC	19.2...28.8 VDC
Aluminum	Aluminum	Aluminum	Aluminum
-20...50 °C	-20...50 °C	-20...50 °C	-20...50 °C
IP65 with connector	IP65 with connector	IP65 with connector	IP65 with connector
CE, ETSI EN 302 208	FCC Part 15	FCC Part 15	FCC Part 15
Page 70	Page 69	Page 69	Page 70

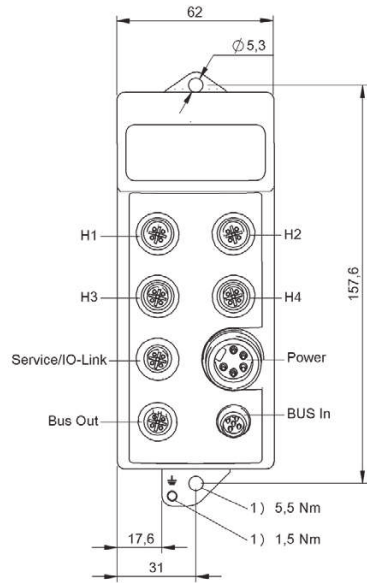
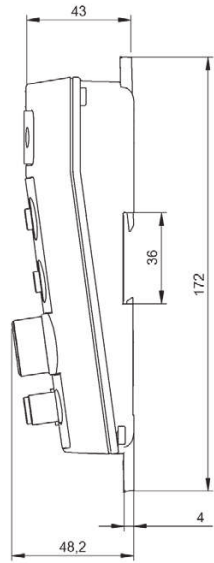


Europe: 865...868 MHz	BIS00Z1 BIS U-626-069-101-06-ST31	
USA: 902...928 MHz		
Product Group	UHF (860...960 MHz)	
Radio license	Europe	
Interface	Industrial Ethernet/ Ethernet TCP/IP/MODBUS TCP	
Supported RFID technologies	UHF 860/960 MHz (BIS U)	
Number of connectable R/W heads / antennas	1	
Output power adjustable	10 dBm...27 dBm (10 mW...500 mW)	
Operating voltage Ub	19.2...28.8 VDC	
Housing material	Aluminum	
Ambient temperature	-20...50 °C	
Protection degree	IP65 with connector	
Approval/Conformity	CE, ETSI EN 302 208	
Productview	Page 70	



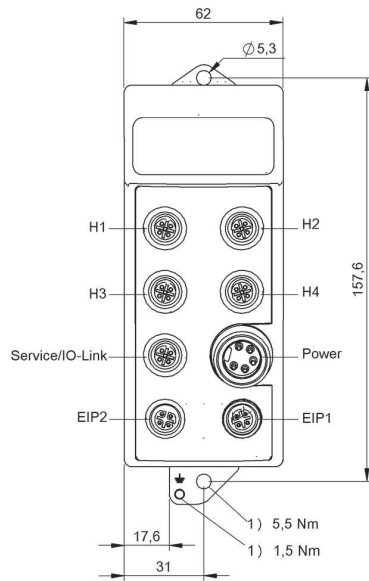
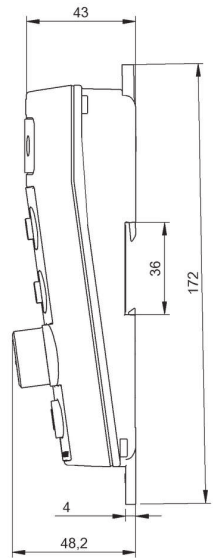
	BIS00Z0 BIS U-626-069-101-06-ST32		
		BIS00YZ BIS U-626-069-111-06-ST31	BIS00YY BIS U-626-069-111-06-ST32
UHF (860...960 MHz)		UHF (860...960 MHz)	UHF (860...960 MHz)
Europe		USA	USA
Industrial Ethernet/ Ethernet TCP/IP/MODBUS TCP		Industrial Ethernet/ Ethernet TCP/IP/MODBUS TCP	Industrial Ethernet/ Ethernet TCP/IP/MODBUS TCP
UHF 860/960 MHz (BIS U)		UHF 860/960 MHz (BIS U)	UHF 860/960 MHz (BIS U)
1		1	1
10 dBm...27 dBm (10 mW...500 mW)		10 dBm...27 dBm (10 mW...500 mW)	10 dBm...27 dBm (10 mW...500 mW)
19.2...28.8 VDC		19.2...28.8 VDC	19.2...28.8 VDC
Aluminum		Aluminum	Aluminum
-20...50 °C		-20...50 °C	-20...50 °C
IP65 with connector		IP65 with connector	IP65 with connector
CE, ETSI EN 302 208		FCC Part 15	FCC Part 15
Page 71		Page 70	Page 71

62 I RFID | UHF (860/960 MHz)



1) Tightening torque

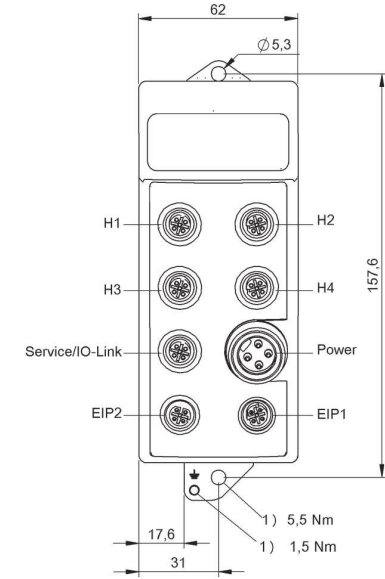
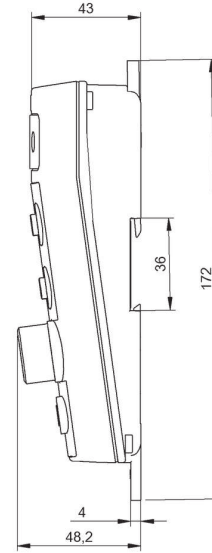
BIS00T3, BIS012E



1) Tightening torque

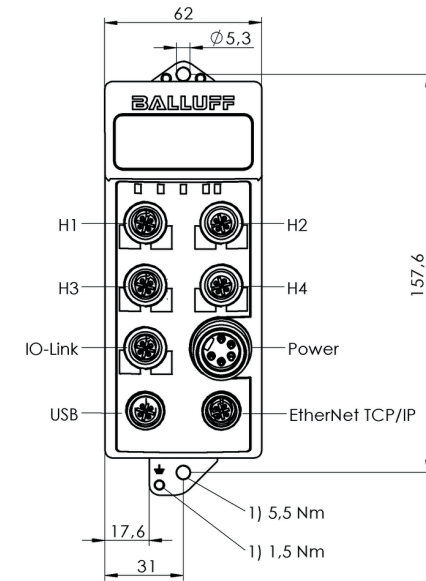
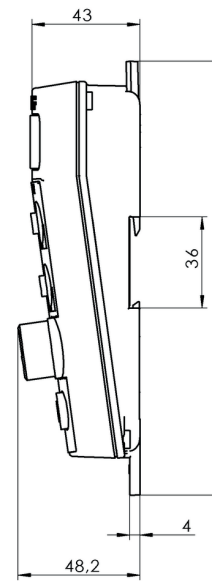
BIS012F, BIS014C

UHF processor units (860/960 MHz) | 63



1) Tightening torque

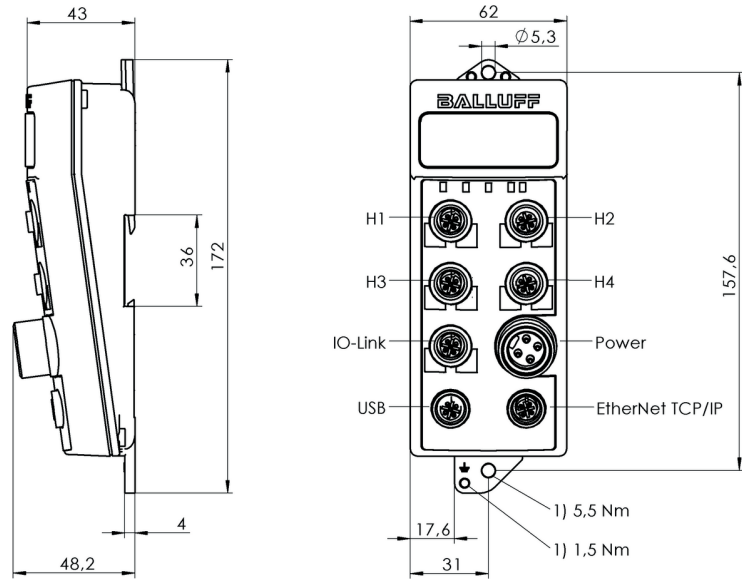
BIS0122, BIS0146



1) Tightening torque

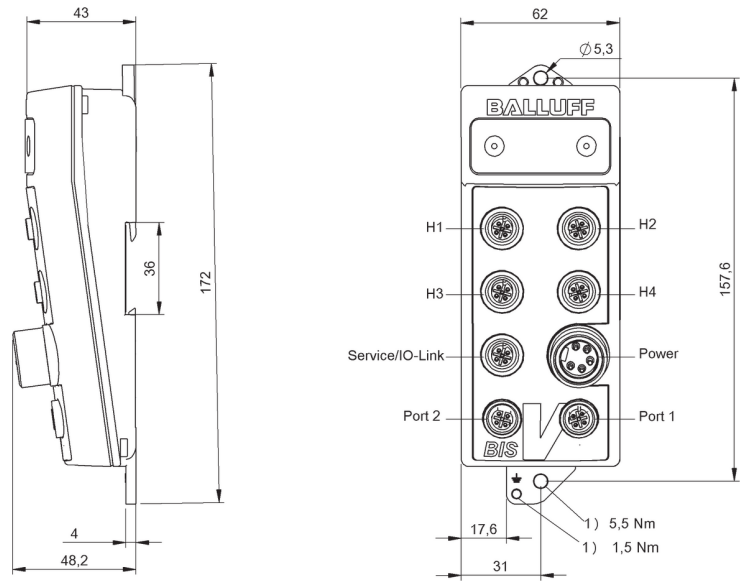
BIS0186, BIS0187

64 | RFID | UHF (860/960 MHz)



1) Tightening torque

BIS018J, BIS018K

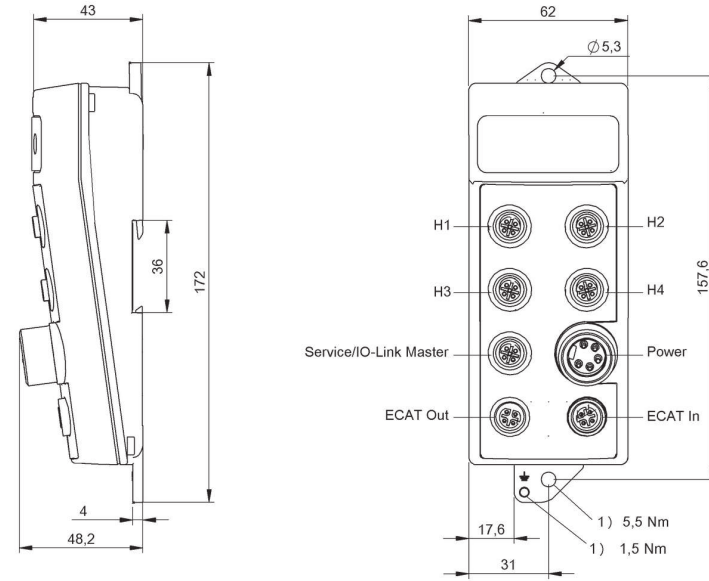


1) Tightening torque

BIS013U, BIS013W

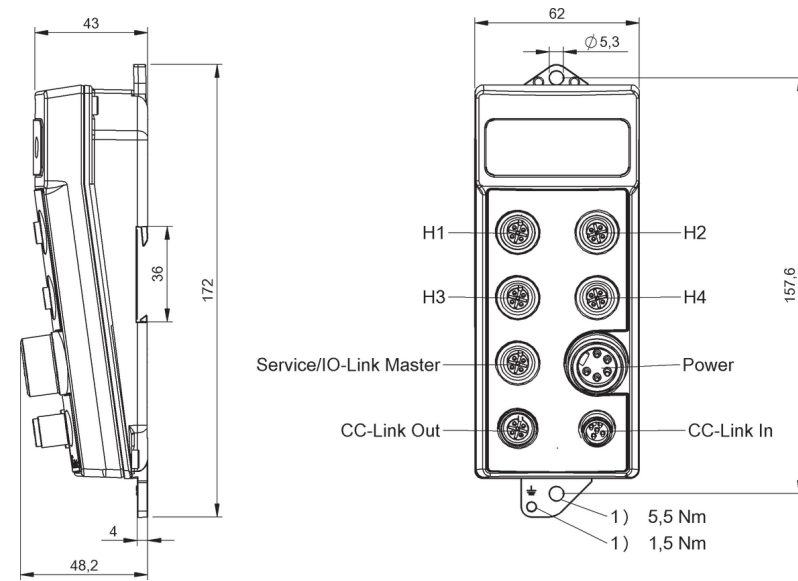
www.balluff.com

UHF processor units (860/960 MHz) | 65



1) Tightening torque

BIS0009, BIS0147



1) Tightening torque

BIS010P, BIS014E

Do you need more details? Our Product Finder at www.balluff.com provides you with product-specific information, including technical drawings, data sheets, user guides and more for each individual product. All items are available for download.

Sensors

RFID

Machine Vision and
Optical Identification

Human Machine
Interfaces

Systems

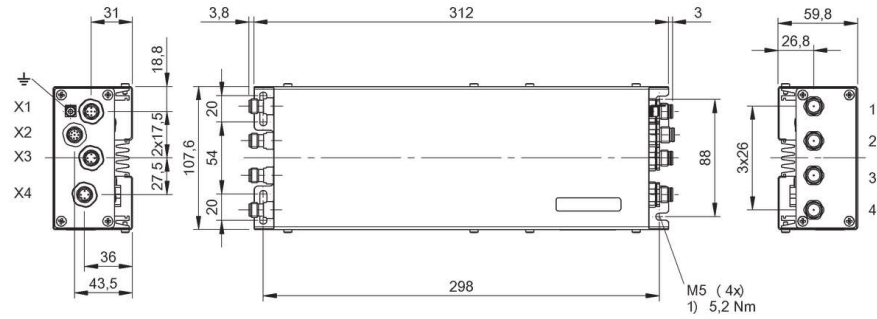
Safety

Industrial Networking

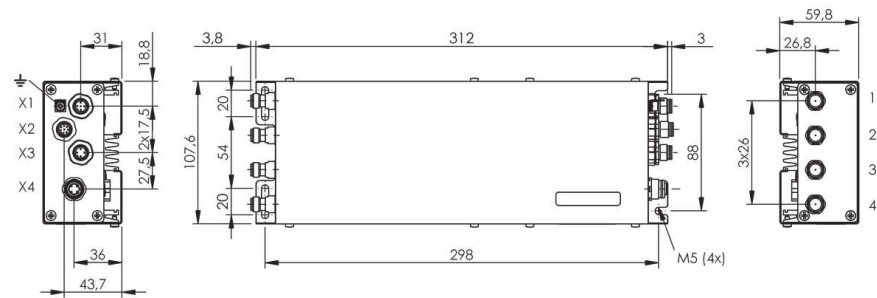
Power Supplies

Connectivity

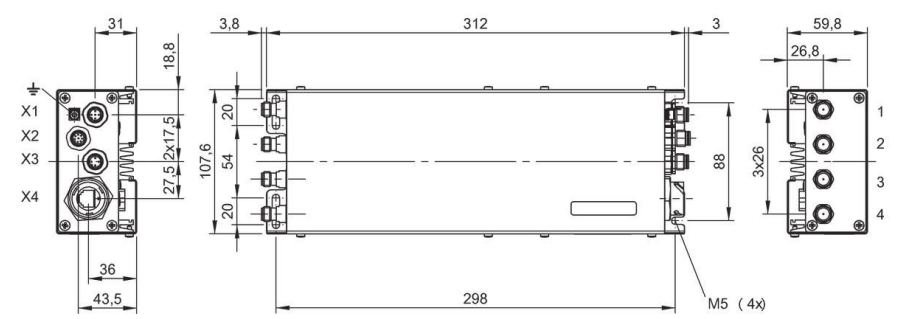
Accessories



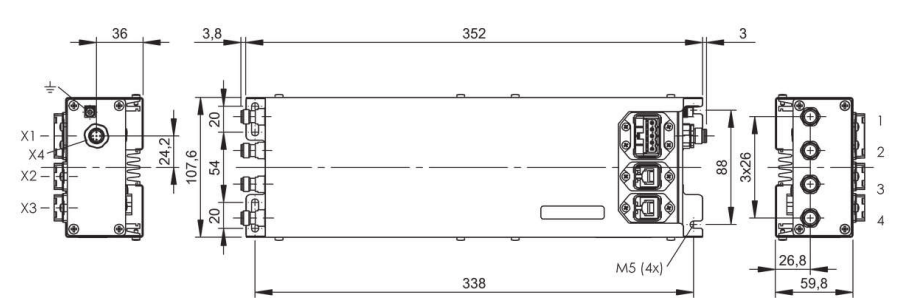
BIS00M7, BIS00R2, BIS00UM



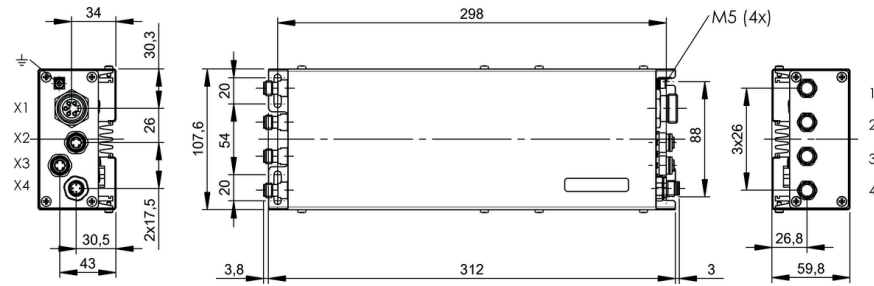
BIS013J, BIS018N



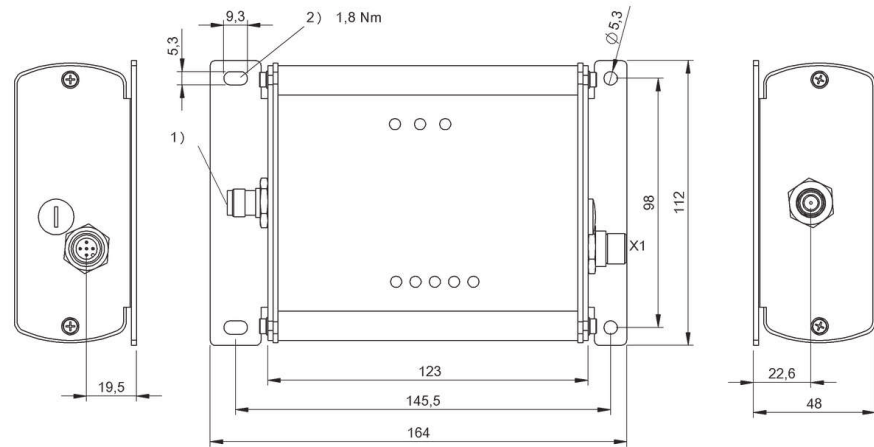
BIS00NA, BIS00R1, BIS012R, BIS00UN, BIS00UR, BIS012T, BIS014H



BIS012Y

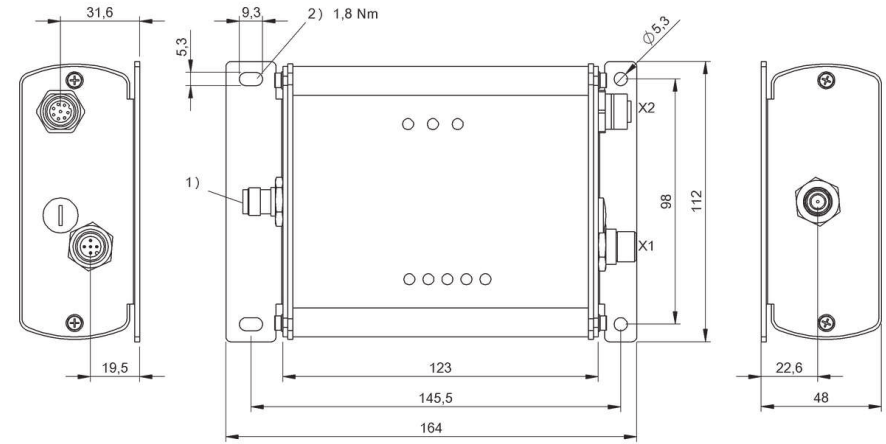


BIS00ZU, BIS00ZW, BIS017J, BIS0152



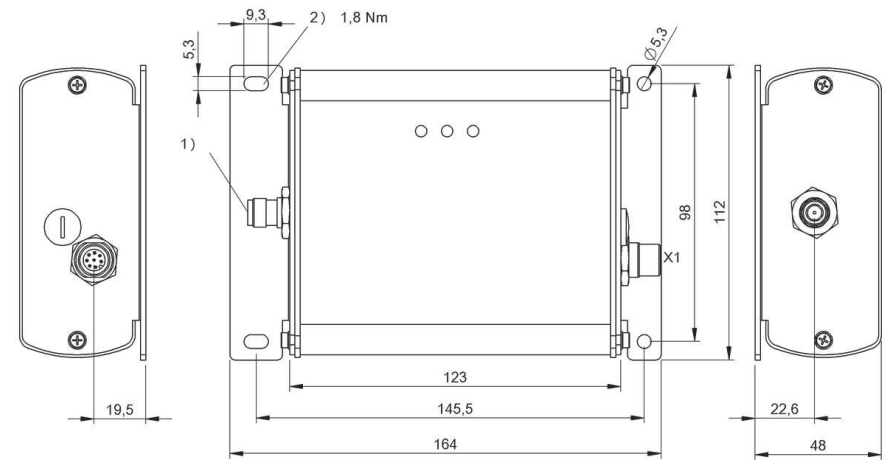
1) Antenna, 2) Tightening torque

BIS00Z9, BIS00Z7



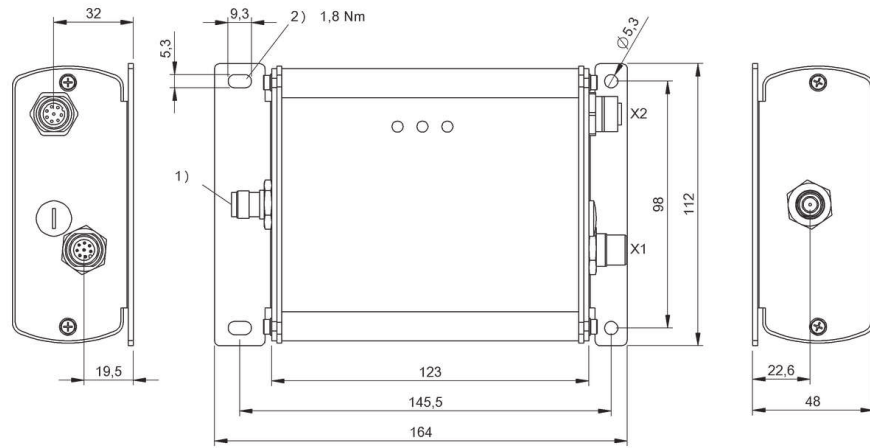
1) Antenna, 2) Tightening torque

BIS00Z8, BIS00Z6



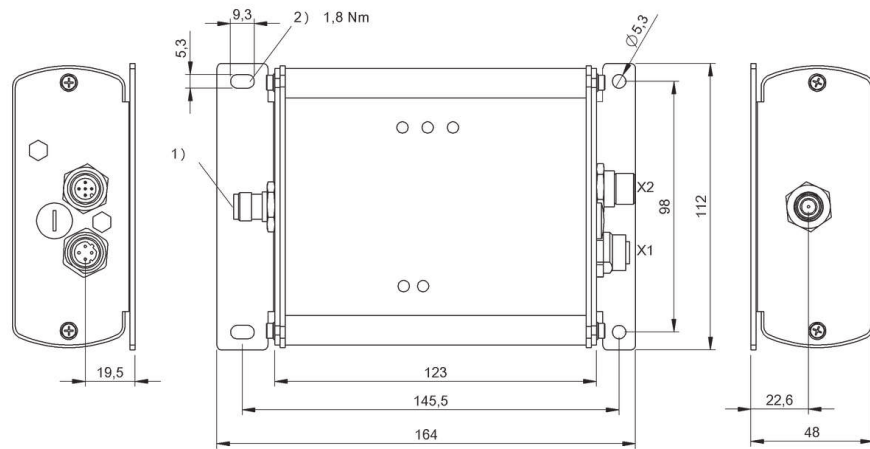
1) Antenna, 2) Tightening torque

BIS00Z5, BIS00Z3



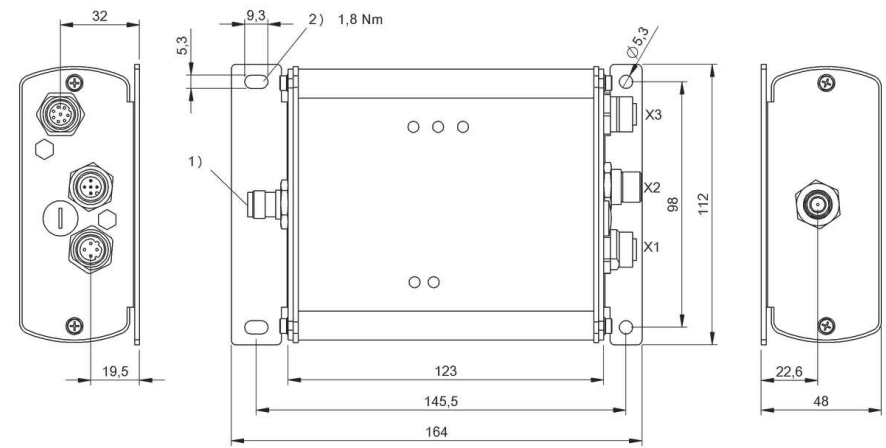
1) Antenna, 2) Tightening torque

BIS00Z4, BIS00Z2



1) Antenna, 2) Tightening torque

BIS00Z1, BIS00YZ



1) Antenna, 2) Tightening torque

BIS00Z0, BIS00YY

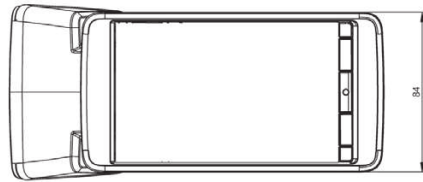
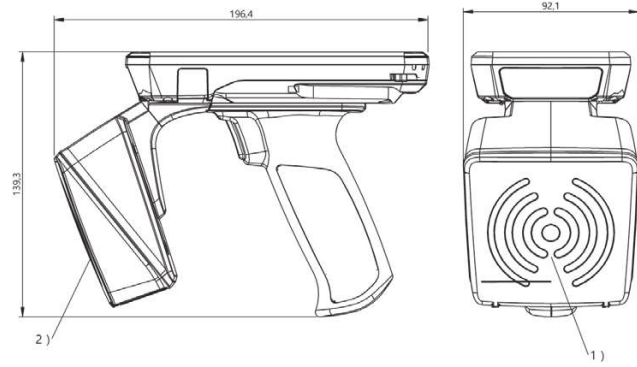


	BAE0100 BIS U-890-2-020-X-005	BAE0101 BIS U-890-2-020-X-005-1	
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	
Radio license	Europe	USA, Canada	
Product name	WLAN + 2D	WLAN + 2D	
Dimension	91 x 196 x 135 mm	91 x 196 x 135 mm	
Antenna type	Cross dipole	Cross dipole	
Display	4.3" Touchscreen display (color): 800x480 VGA resolution 262,000 colors	4.3" Touchscreen display (color): 800x480 VGA resolution 262,000 colors	
Keypad	5 buttons	5 buttons	
Operating voltage Ub	—	—	
Storage temperature	-20...60 °C	-20...60 °C	
Ambient temperature	-20...55 °C	-20...55 °C	
Protection degree	IP54	IP54	
Approval/Conformity	CE, ETSI EN 302 208	FCC, IC	
Productview	Page 74	Page 74	



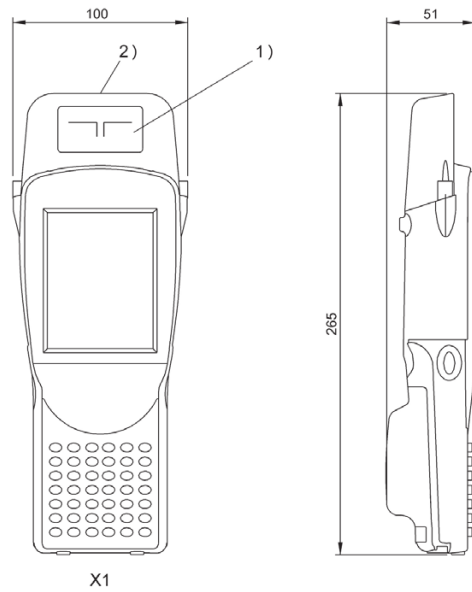
	BAE0102 BIS U-890-2-020-X-005-2	BAE00J8 BIS U-870-1-008-X-001	BAE00W7 BIS U-870-1-008-X-001-1	BAE00LK BIS U-870-1-008-X-005
Product Group	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)	UHF (860...960 MHz)
Radio license	China	—	—	—
Product name	WLAN + 2D	WLAN	WLAN	WLAN + 2D
Dimension	91 x 196 x 135 mm	100 x 51 x 265 mm	100 x 51 x 265 mm	100 x 69 x 265 mm
Antenna type	Cross dipole	Dipol	Dipol	Dipol
Display	4.3" Touchscreen display (color): 800x480 VGA resolution 262,000 colors	TFT Touchscreen-display (color): 480x640 VGA resolution	TFT Touchscreen-display (color): 480x640 VGA resolution	TFT Touchscreen-display (color): 480x640 VGA resolution
Keypad	5 buttons	52 keys, alphanumeric	52 keys, alphanumeric	52 keys, alphanumeric
Operating voltage Ub	—	3.7 V DC rechargeable battery pack	3.7 V DC rechargeable battery pack	3.7 V DC rechargeable battery pack
Storage temperature	-20...60 °C	-40...60 °C	-40...60 °C	-40...60 °C
Ambient temperature	-20...55 °C	-10...50 °C	-10...50 °C	-10...50 °C
Protection degree	IP54	IP65	IP65	IP65
Approval/Conformity	CE, ETSI EN 302 208	CE, ETSI EN 302 208	FCC Part 15, IC RSS-210	CE, ETSI EN 302 208
Productview	Page 74	Page 74	Page 74	Page 75

74 | RFID | UHF (860/960 MHz)



1) Sensing surface, 2) See data for antenna form

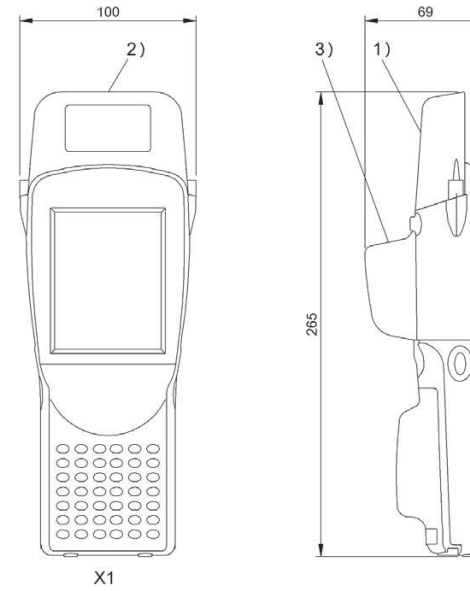
BAE0100, BAE0101, BAE0102



1) Sensing surface, 2) See data for antenna form

BAE00J8, BAE00W7

Portable UHF read/write units (860/960 MHz) | 75



1) Sensing surface, 2) See data for antenna form, 3) Barcode 2D-Scanner

BAE00LK