

BIS V Industrial RFID 🖘 🗈



The new generation for industry and logistics





BIS V Industrial RFID System

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A new generation system for more flexible RFID: Combine up to four low and high frequency read/write heads with I/O in one device.

The BIS V Radio Frequency Identification (RFID) system is founded on a new generation of RFID processors that maximize your flexibility by providing a single device for both low frequency 125Khz and high frequency 13.56Mhz read/write heads with an IO-Link master port. Combining up to four heads on either frequency with local analog, valve manifold or I/O access/control provides a solution you can apply to many types of RFID applications. This can save cost and time using a single processor platform across your application installation base. The BIS V system also allows you to draw on a single processor family with a wide array of read/write head and RFID tag options for both manufacturing and logistics solutions.

The BIS V RFID system offers a higher level of performance than other systems to solve today's industrial applications. Designed to maximize performance while improving usability out on the line, the BIS V processor provides a functional display and LED's making status and setup easier. And a USB service interface makes connection for setup to today's PC's simple. The BIS V offers these additional functions:

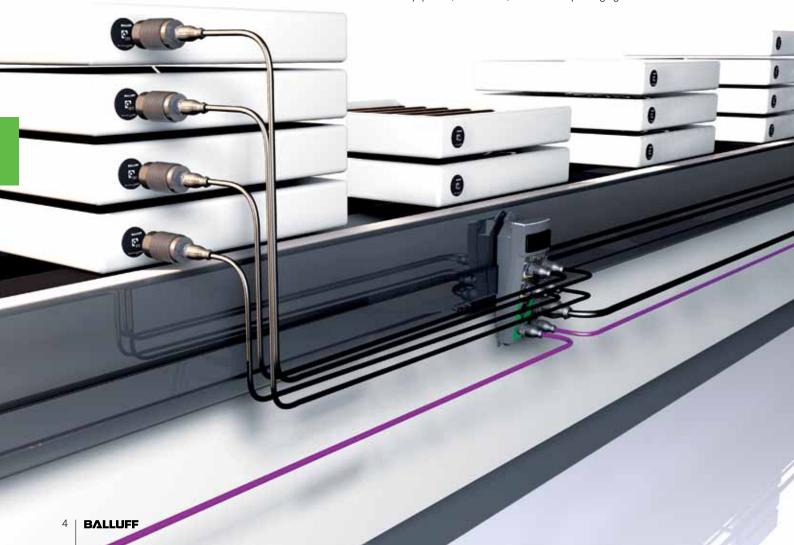
- Four asynchronous 125Khz and 13.56Mhz read/write antenna channels.
- LCD display with control buttons for setting and displaying the Profibus address and data carrier/tags UID.
- An integrated IO-Link master port for connecting discrete or analog I/O, or valve manifolds.
- Intelligent power plug option for saving parameters on the device.
- Industrial IP rated metal housing for any application environment.
- Flexible mounting options for hard-point or DIN rail.







Typical application combining multiple read/write heads with local I/O include tracking and traceability of material or parts in assembly line WIP applications and inter-logistics in automotive, industrial equipment, electronics, medical and packaging.



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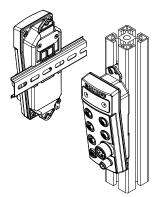






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Description		BIS V RFID unit					
Profibus	Ordering code	BIS00T3					
	Part number	BIS V-6102-019-C001					
Power supply		24 V DC ±10 % LPS Class 2					
Residual ripple		≤ 10 %					
Current		≤ 2 A					
Ambient tempe	erature T _a	0+60 °C					
Degree of prote	ection as per IEC 60529	IP 65					
Housing materi	al	Cast zinc					
Weight		800 g					
Head connection H1 - H4		M12 socket, 5-pin, A-coded					
Power connection		7/8" plug, 5-pin					
Application interface		IO-Link 1.1, USB 2.0					
Application with	n read/write heads	BIS VM-3 and BIS VL-3					

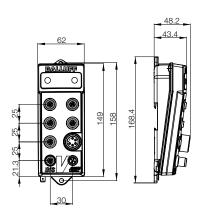




EtherCat, EtherNet/IP, and CC link will be available as additional interfaces in the second half of 2012 and in 2013.

The compact EMC-protected metal housing with small dimensions (170×60×40 mm) is well integrated and simple to mount. In control cabinets or in the field up to IP 65, on a DIN rail, or on a solid mount.

The BIS V industrial RFID system was developed and qualified according to the principles of GAMP® 5. You can obtain more detailed information upon request at www.balluff.com



www.balluff-usa.com **BALLUFF**









HF
МЗ
nor
rou
BIS
BIS
≤ 1:
18.
≤ 1
-25
IP 6
yes
Nic
100
M1:

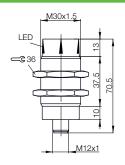
HF read/write head BIS VM
M30×1.5
non-flush
round
BIS00RF
BIS VM-300-001-S4
≤ 150 mA
1830 V DC
≤ 1.3 V _{ss}
−25+55 °C
IP 67 (with connector)
yes
Nickel-plated CuZn (brass)
100 g
M12 connector, 4-pin

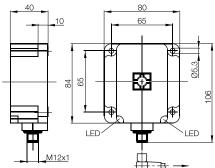
HF read/write head BIS VM
80×80×40 mm
non-flush
round
BIS00T0
BIS VM-301-001-S4
≤ 150 mA
1830 V DC
≤ 1.3 V _{ss}
−25+55 °C
IP 67 (with connector)
yes
PBT
190 g
M12 connector, 4-pin

HF read/write head BIS VM
80×80×40 mm
non-flush
Rod
BIS00T2
BIS VM-351-001-S4
≤ 150 mA
1830 V DC
≤ 1.3 V _{ss}
−25+55 °C
IP 67 (with connector)
yes
PBT
360 g
M12 connector, 4-pin

Refer to the corresponding write/read distance from the Industrial Identification catalog, Chapter BIS M (BIS VM-300... corresponds to BIS M-300...).









Please order matching cables separately.

(Unshielded cable can be used only for lengths up to 3 m. Cable lengths over 3 m have to be shielded.)

		BCCO	0	ŏŏ	BCC03/	BCC0391	BCC03	BCC039L BCC039W	BCC03A BCC03A	BCC039M BCC039Y	BCC03AE BCC03AN
	0.3	m		0.6 m		1 m		1.5 m		2 m	
straight straight PUR black	ck 🔳										
straight angled PUR black	k I										
angled straight PUR black	ck										
angled angled PUR black	ck										

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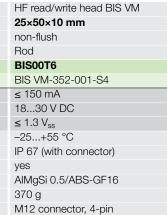




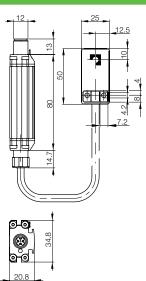
	HF read/write head BIS VN
	25x50x10 mm
	non-flush
	round
	BIS00T9
	BIS VM-305-001-S4
Ī	≤ 150 mA
	1830 V DC
	≤ 1.3 V _{ss}
	−25+55 °C
	IP 67 (with connector)
	yes
	AIMgSi 0.5/ABS-GF16
	200 g
	M12 connector, 4-pin

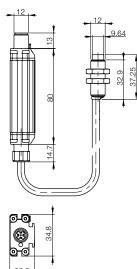
HF read/write head BIS VM
M12×1
non-flush
round
BIS00T7
BIS VM-306-001-S4
≤ 150 mA
1830 V DC
≤ 1.3 V _{ss}
−25+55 °C
IP 67 (with connector)
yes
AlMgSi 0.5/nickel-plated CuZn
190 g
M12 connector, 4-pin

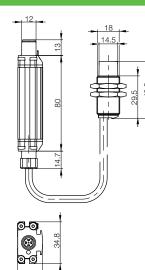
HF read/write head BIS VM
M18×1
non-flush
round
BIS00T8
BIS VM-307-001-S4
≤ 150 mA
1830 V DC
≤ 1.3 V _{ss}
−25+55 °C
IP 67 (with connector)
yes
AlMgSi 0.5/nickel-plated CuZi
220 g
M12 connector, 4-pin

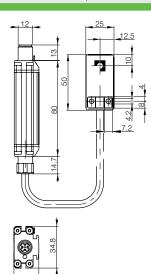












BALLUFF

sensors worldwide



Object Detection

Inductive sensors, cylinder sensors, magnetic field sensors capacitive sensors, ultrasonic sensors, photoelectric sensors, fiber optic devices, fiber optics, angle sensors, through-beam fork sensors, optical window sensors, light grids, contrast sensors, luminescence sensors, color sensors, mechanical and inductive single and multiple position switches



Linear Position and Measurement

Micropulse® transducers, magnetic linear encoder system, inductive displacement system, inductive distance sensors, magnetoinductive distance sensors, capacitive distance sensors, photoelectric distance sensors, ultrasonic sensors



Fluid Detection

Pressure sensors, capacitive sensors for level detection



Industrial Identification

Industrial RFID systems, vision sensors



Networking and Connectivity

Connectors and connection cables, valve connectors, passive splitter boxes, active splitter boxes, IO-Link, bus systems (Profibus, Profinet, CC-Link, DeviceNet, EtherNet), inductive couplers, power supplies, electrical devices

Canada



Accessories

Brackets and mountings, assembly system BMS



USA

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