

**Ideal for applications in far field**

## UHF ANTENNA WITH LARGE READING DISTANCE

The BIS U-303 UHF antenna with its generous working range is optimal for applications where you need to identify objects over distances of several meters.

With its long read range, this antenna is a solid performer. For example, in detecting material flow without contact. This makes it ideal for gate applications in intralogistics, or for identifying pallets and trays in robot cells or feeding machines. The favorable field angle also lets you monitor manual or automated assembly stations.

Due to its IP67 rating, you can use it in a variety of environments, even under harsh conditions.

### Features

- Generous read range of several meters
- Rugged housing with IP67 protection
- Data acquisition in any orientation thanks to circular polarization
- Ideal for intralogistics gate applications

CE FC





## RFID

UHF ANTENNAS (860/960 MHZ)	BIS01AW	BIS01AY
Dimension	300 × 300 × 49 mm	
Housing material	Aluminum, polymer blend	
Working frequency	865...868 MHz	902...928 MHz
Antenna gain	8.5 dBic	
Antenna impedance	50 Ohm	
Polarization	Right hand circular	
VSWR (voltage standing wave ratio)	≤ 1.2:1	
Front-to-back ratio	≥ 18 dB	
Permissible radiated power	ETSI EN 302208 + 33 dBm ERP	FCC 15.247 + 36 dBm EIRP
Axial ratio typ.	1 dB	
Opening angle min.	65°	
Storage/ambient temperature	-20...55 °C/-40...85 °C	
Connection	TNC female	
Approval/conformity	CE	FCC

## ACCESSORIES



	BAM03A7	BAM035N	BAM024P	BAM021Y
Description	Holder for installing antennas BIS U-3...	Holding rods with Ø 12 mm for mounting system BMS	Holding rods with Ø 12 mm for mounting system BMS	Mounting rod Ø 12 × 100 mm

## CONNECTIVITY



	BAM01HL	BAM01HM	BAM01HP	BAM01WP
Connection 1	R-TNC connector 7/16"-28 UNEF female, straight, 1-pole	R-TNC connector 7/16"-28 UNEF female, straight, 1-pole	R-TNC connector 7/16"-28 UNEF female, straight, 1-pole	R-TNC connector 7/16"-28 UNEF female, straight, 1-pole
Connection 2	R-TNC connector 7/16"-28 UNEF male, straight	R-TNC connector 7/16"-28 UNEF male, straight	R-TNC connector 7/16"-28 UNEF male, straight	R-TNC connector 7/16"-28 UNEF male, straight
Cable	1 m FRPE shielded, black	2 m FRPE shielded, black	10 m FRPE shielded, black	20 m FRPE shielded, black