



FLEXIRAY

# FlexiRay™ SFR 3.X

## Ultra Slim RFID UHF Antenna

### Key Antenna Features

- Esthetic design suitable for indoor / outdoor RFID applications
- Rugged enclosure IP65 for industrial and logistic projects
- Low profile and modular antenna length
- Easy and flexible mounting capabilities
- VESA standard / mounting accessories
- Middle read range applications 4-7 meters\*

### RFID UHF Antenna Description

Modular slim rugged antenna FlexiRay SFR 3.X with high-quality design enables creation of RFID reading zones in entrances, exits, corridors, doors and gates / no matters if indoor or outdoor due to IP65 protection. Esthetic and pleasing design allows deploying the antennas in interiors for asset & people tracking in commercial, retail & library applications include outdoor/ indoor project in logistics and industrial environment, manufacturing, reading on conveyors and production lines.

### FlexiRay SFR Antenna Applications

- RFID portals and reading zones in entrances, gates, doors and corridors
- Logistics, warehouse aisles, receiving, replenishment and shipping applications
- Manufacturing, conveyors and production lines
- Asset tracking in retail, commercial and library applications
- Access & attendance control



IP65  
protection class



## FlexiRay SFR 3.X Antenna Options

FlexiRay SFR 3.X is supplied in 4 lengths that allow optimal adaptation to vary installations. Rugged high-quality aluminum construction was developed for use indoor and outdoor in logistics, manufacturing and industrial environments. RFID UHF antenna FlexiRay SFR 3.X provides flexible mounting capability.

VESA 75 standard is supporting variety of mounting options. Antennas are equipped with RP-TNC connector optionally with SMA connector or 30cm pigtail SMA female connector.

Antenna was designed for middle range applications requiring reading characteristics

along the whole antenna length. Using EIRP 2W (maximum is 4 W in FCC band) it can achieve reading distance from 4 to 7 meters\*, depending on the type of antenna, used reader, cable length, RFID tags and environment. Antenna can be attached to any surface include metal.

\* Tested in open-air environment, Alien / Impinj reader, EIRP 2 W / 33dBm, 4m cable, Alien Squiggle H3 tag

## RFID UHF Antenna Technical Specification

Model Number	SFR-31XX	SFR-32XX	SFR-33XX	SFR-34XX
Frequency Range	866 - 868 MHz (ETSI) 902 - 928MHz (FCC)			
Polarization	circular			
Gain	2,5 dBi (5,5 dBic)			
Impedance	50 Ohms			
Max. Input Power	EIRP ETSI 2W / FCC 4W			
Connector	RP-TNC or SMA female pigtail 30cm or SMA connector			
VSWR - ETSI	<1,3 (866 - 868 MHz)	<1,3 (866 - 868 MHz)	<1,3 (866 - 868 MHz)	<1,3 (866 - 868 MHz)
VSWR - FCC	<1,5 (909-926 MHz)	<1,5 (909-926 MHz)	<1,5 (907-924 MHz)	<1,5 (910-926 MHz)
<b>Dimensions (mm):</b>				
Length (ETSI)	128	578	828	1078
Length (FCC)	128	528	783	1018
Width	140	140	140	140
Height (without connector)	14	14	14	14
Weight (ETSI) (kg)	0,4	1,5	2,2	2,8
Weight (FCC) (kg)	0,4	1,4	2,0	2,6
Protection Class	IP65			
Operating Temperature	-25°C / 60°C			

### Ordering Code

ETSI (865 - 868 MHz), RP-TNC	SFR-3100	SFR-3200	SFR-3300	SFR-3400
ETSI (865 - 868 MHz), SMA	SFR-3110	SFR-3210	SFR-3310	SFR-3410
ETSI (865 - 868 MHz), SMA pigtail 30cm	SFR-3120	SFR-3220	SFR-3320	SFR-3420
FCC (902 - 928 MHz), RP-TNC	SFR-3101	SFR-3201	SFR-3301	SFR-3401
FCC (902 - 928 MHz), SMA	SFR-3111	SFR-3211	SFR-3311	SFR-3411
FCC (902 - 928 MHz), SMA pigtail 30cm	SFR-3121	SFR-3221	SFR-3321	SFR-3421



Barco, s.r.o.  
Hradistska 849  
687 08 Buchlovice  
Czech Republic

Tel.: +420 572 520 052  
Fax: +420 572 520 032  
E-mail: flexiray@barco.cz