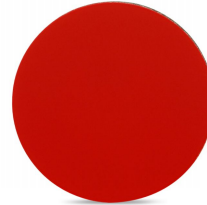


NFC/RFID Sensor-Tag

NFC/RFID Sensor-tag for imc SIMPLEX



Tags as cable tie (140mm)



Tags as adhesive sticker (30mm)

Data Sheet Version 1.0

Sensors equipped with RFID tags, in conjunction with imc SIMPLEX, enable extremely fast configuration of imc ARGUSfit channels by means of validated sensor settings prepared in a cloud. Two variants are available for mounting.

Sensor-tag as cable tie

The blue NFC cable tie is made of weather resistant PVC. The cable tie has a total length of length of 160 mm and a width of 2 mm. The length of the loop is 140 mm. The body itself, which houses the NFC chip, measures 10 x 10 mm.

Sensor-tag as adhesive sticker

The red on-metal sticker is made of waterproof PVC. An additional layer ensures that the NFC function works properly on metallic surfaces. The back of the sticker has a 3M adhesive layer, which gives the sticker the necessary adhesive strength. The sticker is 30 mm in diameter and approximately 1.30 mm thick. The NFC microchip is invisibly integrated into the sticker and can withstand temperatures between -25 degrees and 70 degrees.

NFC-Chip

The sensor-tag is equipped with the original NXP NTAG213. The NTAG213 has a total capacity of 180 bytes (free memory 144 bytes), of which 137 bytes are usable memory in the NDEF. Each individual chip has a unique serial number (UID) consisting of 7 bytes (alphanumeric, 14 characters). The NFC chip can undergo up to 100,000 writing operations and has a data retention time of 10 years. The NTAG213 is compatible with all NFC-enabled smart phones, the NFC21 tools and all ISO14443 terminals.

Order Code	Properties	Article No.
ACC/NFC-STRAP-10	NFC/RFID Sensor-tag for imc SIMPLEX Tags as cable tie (140mm), 10 pieces	13500450
ACC/NFC-STICKER-10	NFC/RFID Sensor-tag for imc SIMPLEX Tags as adhesive sticker (30mm), 10 pieces	13500451

Technical Data Sheet - NFC/RFID Sensor-Tag

Data Sheet Version 1.0

Parameter	Value typ.	min. / max.	Remarks
Memory	180 Byte		free: 144 Byte, NDEF: 137 Byte
Functions			Write protection, UID ASCII Mirror, 32-bit password, 24-bit counter, ASCII Mirror, 7-Byte UID, ECC-based original signature, true anticollision, rewritable
Frequency	13.56 MHz		
Chip	NXP NTAG213		
Data transfer rates	106 kbit/s		
Chip-Standards / ISO standard	ISO 14 443-3 A, ISO 14 443-2 A		
NFC-Forum type	NFC-Forum Type 2		to NFC-enabled smart phones: 100%
Storage temperature		-55°C / +125°C	
Operating temperature		-25°C - / +70°C	
Data retention	10 years		
Number of write operations	100,000		
Cable tie	Value typ.	min. / max.	Remarks
Weight	7 g		
Color	blue		
Antenna	Aluminum		
Ingress Protection	IP67		
Material	PVC		
Sticker	Value typ.	min. / max.	Remarks
Weight	0.72 g		
Color	red		
Material thickness	1.43 mm		
Sticker thickness	0.55 mm	+/- 0.05 mm	
Dimensions	30 mm Ø		
Antenna	copper		23 mm
On-Metal	yes		layer 0.2 mm
Ingress Protection	IP67		
Material	PVC		