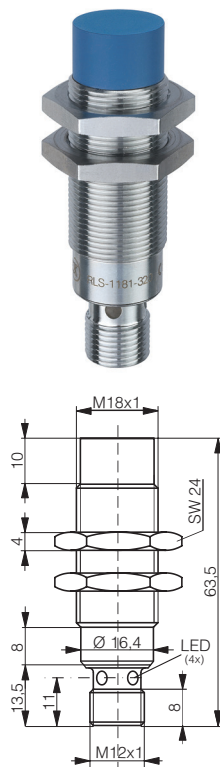


| HOUSING | READ/WRITE DISTANCE | <ul style="list-style-type: none"> <li>✓ M18 Metal threaded housing</li> <li>✓ Sensing face of PBTP</li> <li>✓ Insensible to dirt</li> <li>✓ IO-Link V1.1</li> </ul> | <ul style="list-style-type: none"> <li>✓ 2 x PNP output in SIO mode configurable</li> <li>✓ RWM reconfigurable via a Master Tag</li> </ul> |
|---------|---------------------|--|--|
| M18     | 42 mm*              |  |  |



\* Please refer to table page 8

| GENERAL DATA               |                         | INTERFACE           |                                     |
|----------------------------|-------------------------|---------------------|-------------------------------------|
| Carrier frequency          | 13.56 MHz               | Data transfer rate  | 38 400 baud                         |
| Compatible standard        | ISO 15693               | LED green on        | RWM live                            |
| Maximum transmission speed | 26.5 kbit/s             | LED green blinking  | IO-Link communication               |
| Read-write distance max.   | 42 mm with RTP-0502-022 | LED yellow on       | Transponder detected                |
|                            |                         | LED yellow blinking | Transponder + IO-Link communication |
|                            |                         | IO-Link             | ✓                                   |

| ELECTRICAL DATA                        |             | MECHANICAL DATA                |                     |
|--|-------------|--------------------------------|---------------------|
| Supply voltage range (U <sub>b</sub> ) | 11...32 VDC | Protection degree              | IP67                |
| No-load supply current (field off)     | 20 mA       | Ambient temperature range TA*  | -25...+80 °C        |
| Max. current consumption (no load)     | 50 mA       | Storage temperature range TS** | -25...+80 °C        |
| Polling current                        | 30 mA       | Sensing face material          | PBTP                |
| Short-circuit protection               | ✓           | Housing material               | Chrome-plated brass |
| Voltage reversal protection            | ✓           | Connector type                 | M12 4-pin           |
| Max. output current                    | ≤ 200 mA    | Weight (incl. nuts)            | 37 g                |

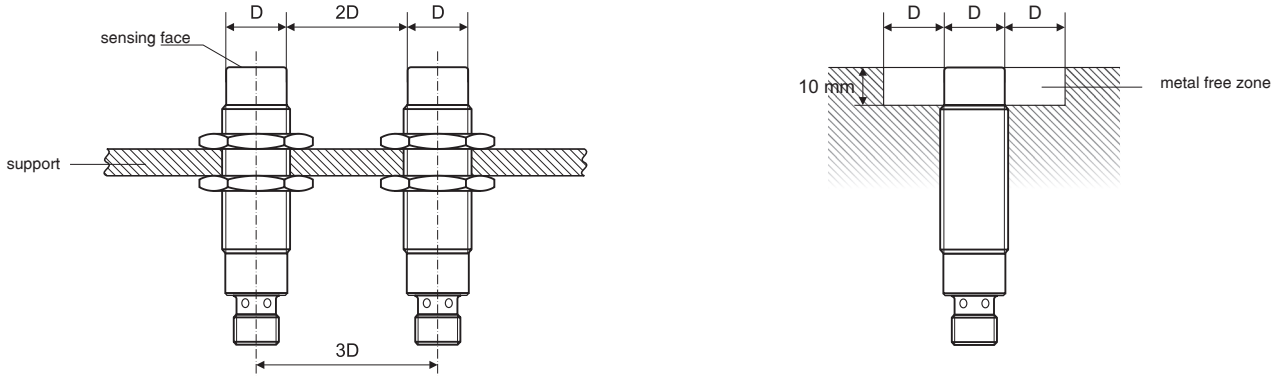
\* Read/write operations possible

\*\* Data retention and mechanical stability limit

## MOUNTING RECOMMENDATIONS

### CLEARANCE

Read/write modules must not mutually influence each other. For this reason, a minimum distance of  $2 \times D$  between the devices must be observed.

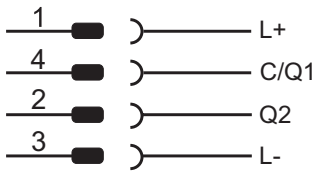


### WIRING DIAGRAM

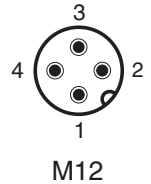
### PIN ASSIGNMENT



bn  
bk  
wh  
bu



| Pin | Signal | Function                                   |
|-----|--------|--|
| 1   | L+     | +24 V                                      |
| 2   | Q2     | DO (tag presence or data comparison)       |
| 3   | L-     | OV   |
| 4   | C/Q1   | SDCI/SIO (tag presence or data comparison) |



| IO-Link characteristics            | Value for RLS-1181-320 |
|------------------------------------|------------------------|
| IO-Link Protocol                   | 1.1                    |
| COM-Mode                           | COM2 (38.4 kBaud)      |
| Min. cycle time                    | 14.4 ms                |
| Process data width in              | 8 bytes                |
| Process data width out             | 9 bytes                |
| Profile                            | Smart Sensor Profile   |
| SIO-Mode support                   | Yes                    |
| Port type                          | A                      |
| Memory request for data management | 41 bytes               |
| Device ID                          | 0xAB0201               |
| Vendor ID                          | 0x0156                 |

| CONFIGURATION PARAMETER (IO-LINK / SIO MODE) |                 |                                      |        |           |  |  |
|--|-----------------|--------------------------------------|--------|-----------|--|--|
| Index  | Sub Hex         | Name                                 | Access | Data Type | Value  | Default  |
| <b>IDENTIFICATION</b>                        |                 |                                      |        |           |  |  |
| 10 <sub>h</sub>                              |                 | Vendor Name                          | R      | char []   | "Contrinex"  |  |
| 11 <sub>h</sub>                              |                 | Vendor Text                          | R      | char []   | "www.contrinex.com"  |  |
| 12 <sub>h</sub>                              |                 | Product Name                         | R      | char []   | "RLS-1301-320"   |  |
| 13 <sub>h</sub>                              |                 | Product ID                           | R      | char []   | "00000000"   |  |
| 14 <sub>h</sub>                              |                 | Product Text                         | R      | char []   | "IO-Link RFID reader"  |  |
| 15 <sub>h</sub>                              |                 | Serial Number                        | R      | char []   | "00000001"   |  |
| 17 <sub>h</sub>                              |                 | Firmware Revision                    | R      | char []   | "01.09.01"   |  |
| 18 <sub>h</sub>                              |                 | Application Specific Tag             | R/W    | char []   | <user string, 16 byte (variable length)>   | <vendor specific>  |
| <b>READER PARAMETER PROCESS DATA</b>         |                 |                                      |        |           |  |  |
| 40 <sub>h</sub>                              | 01 <sub>h</sub> | Operating Mode                       | R/W    | uint8     | FF <sub>h</sub> : Scan UID<br>00 <sub>h</sub> : Scan User Data<br>01 <sub>h</sub> : Read / Write Command   | FF <sub>h</sub>  |
|  | 02 <sub>h</sub> | Data Hold Time                       | R/W    | uint8     | FF <sub>h</sub> : No Hold Time<br>00 <sub>h</sub> : Hold Time 100 ms<br>01 <sub>h</sub> : Hold Time 200 ms<br>02 <sub>h</sub> : Hold Time 500 ms<br>03 <sub>h</sub> : Hold Time 1000 ms<br>04 <sub>h</sub> : Hold Time 2000 ms | FF <sub>h</sub>  |
|  | 03 <sub>h</sub> | Scan Address                         | R/W    | uint8     | Address to scan  | FF <sub>h</sub>  |
| <b>READER PARAMETER SIO</b>                  |                 |                                      |        |           |  |  |
| 41 <sub>h</sub>                              | 01 <sub>h</sub> | C/Q1 PIN SIO Operating Mode          | R/W    | uint8     | FF <sub>h</sub> : Presence Transponder<br>00 <sub>h</sub> : Compare Data<br>01 <sub>h</sub> : No SIO   | FF <sub>h</sub>  |
|  | 02 <sub>h</sub> | C/Q1 SIO Data to compare H           | R/W    | uint32    | Comparison value Byte 7 to 4   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> |
|  | 03 <sub>h</sub> | C/Q1 SIO Data to compare L           | R/W    | uint32    | Comparison value Byte 3 to 0   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> |
|  | 04 <sub>h</sub> | SIO Compare Data Address (C/Q1 & Q2) | R/W    | uint8     | Comparison address for C/Q1 and Q2 (A valid address must be chosen)  | FF <sub>h</sub>  |
|  | 05 <sub>h</sub> | Data Hold Time Output (C/Q1 & Q2)    | R/W    | uint8     | FF <sub>h</sub> : No Hold Time<br>00 <sub>h</sub> : Hold Time 100 ms<br>01 <sub>h</sub> : Hold Time 200 ms<br>02 <sub>h</sub> : Hold Time 500 ms<br>03 <sub>h</sub> : Hold Time 1000 ms<br>04 <sub>h</sub> : Hold Time 2000 ms | FF <sub>h</sub>  |
|  | 06 <sub>h</sub> | C/Q1 PIN SIO Polarity                | R/W    | uint8     | FF <sub>h</sub> : Output "close" if condition = true<br>00 <sub>h</sub> : Output "open" if condition = true  | FF <sub>h</sub>  |
|  | 07 <sub>h</sub> | Q2 PIN SIO Operating Mode            | R/W    | uint8     | FF <sub>h</sub> : Presence Transponder<br>00 <sub>h</sub> : Compare data (C/Q1 must be also in compare data)<br>01 <sub>h</sub> : No SIO   | FF <sub>h</sub>  |
|  | 08 <sub>h</sub> | Q2 SIO Data to compare H             | R/W    | uint32    | Comparison value Byte 7 to 4   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> |
|  | 09 <sub>h</sub> | Q2 SIO Data to compare L             | R/W    | uint32    | Comparison value Byte 3 to 0   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> |
|  | 0A <sub>h</sub> | Q2 PIN SIO Polarity                  | R/W    | uint8     | FF <sub>h</sub> : Output "close" if condition = true<br>00 <sub>h</sub> : Output "open" if condition = true  | FF <sub>h</sub>  |

## PROCESS DATA REPRESENTATION

### PROCESS DATA MODE SCAN UID MODE

#### PROCESS DATA INPUT

| Bitoffset | 7            | 6 | 5          | 4          | 3             | 2 | 1 | 0 |
|-----------|--------------|---|------------|------------|---------------|---|---|---|
| 0         |              |   | <b>TAG</b> | <b>ANT</b> | <b>NB TAG</b> |   |   |   |
| 1         | <b>UID 0</b> |   |            |            |               |   |   |   |
| 2         | <b>UID 1</b> |   |            |            |               |   |   |   |
| 3         | <b>UID 2</b> |   |            |            |               |   |   |   |
| 4         | <b>UID 3</b> |   |            |            |               |   |   |   |
| 5         | <b>UID 4</b> |   |            |            |               |   |   |   |
| 6         | <b>UID 5</b> |   |            |            |               |   |   |   |
| 7         | <b>UID 6</b> |   |            |            |               |   |   |   |
| 8         | <b>UID 7</b> |   |            |            |               |   |   |   |

**TAG :** 0 = No tag present in front of the RWM  
 1 = 1 tag or more present in front of the RWM  
**ANT :** 0 = RF field off  
 1 = RF field on  
**NB TAG :** Number of tag in front of the RWM  
**UID 0 :** UID LSB  
**UID 7 :** UID MSB

#### PROCESS DATA OUTPUT

| Bitoffset | 7 | 6 | 5            | 4             | 3 | 2 | 1 | 0 |
|-----------|---|---|--------------|---------------|---|---|---|---|
| 0         |   |   | <b>N_ANT</b> | <b>TAG NB</b> |   |   |   |   |
| 1         |   |   |              |               |   |   |   |   |
| 2         |   |   |              |               |   |   |   |   |
| 3         |   |   |              |               |   |   |   |   |
| 4         |   |   |              |               |   |   |   |   |
| 5         |   |   |              |               |   |   |   |   |
| 6         |   |   |              |               |   |   |   |   |
| 7         |   |   |              |               |   |   |   |   |
| 8         |   |   |              |               |   |   |   |   |

**N\_ANT :** 0 = Switch on RF field  
 1 = Switch off RF field  
**TAG NB :** Index of tag to be printed in UID area (index from 0)

### PROCESS DATA MODE SCAN USER DATA

#### PROCESS DATA INPUT

| Bitoffset | 7                          | 6          | 5          | 4          | 3 | 2 | 1 | 0          |
|-----------|----------------------------|------------|------------|------------|---|---|---|------------|
| 0         | <b>RDY</b>                 | <b>ERR</b> | <b>TAG</b> | <b>ANT</b> |   |   |   | <b>EXT</b> |
| 1         | <b>Data 0 / Error Code</b> |            |            |            |   |   |   |            |
| 2         | <b>Data 1</b>              |            |            |            |   |   |   |            |
| 3         | <b>Data 2</b>              |            |            |            |   |   |   |            |
| 4         | <b>Data 3</b>              |            |            |            |   |   |   |            |
| 5         | <b>Extended Data 4</b>     |            |            |            |   |   |   |            |
| 6         | <b>Extended Data 5</b>     |            |            |            |   |   |   |            |
| 7         | <b>Extended Data 6</b>     |            |            |            |   |   |   |            |
| 8         | <b>Extended Data 7</b>     |            |            |            |   |   |   |            |

**RDY :** 0 = No data available yet  
 1 = Memory scanned and data available  
**ERR :** 0 = Memory scanned and no error  
 1 = Memory scanned but error;  
**TAG :** 0 = No tag present in front of the RWM  
 1 = Tag present in front of the RWM  
**ANT :** 0 = RF field off  
 1 = RF field on  
**EXT :** 0 = 4 bytes data  
 1 = 8 bytes data  
**Data 0 :** User data LSB / Error Code  
**Data 3 / 7 :** User data MSB

#### PROCESS DATA OUTPUT

| Bitoffset | 7 | 6 | 5 | 4            | 3 | 2 | 1 | 0 |
|-----------|---|---|---|--------------|---|---|---|---|
| 0         |   |   |   | <b>N_ANT</b> |   |   |   |   |
| 1         |   |   |   |              |   |   |   |   |
| 2         |   |   |   |              |   |   |   |   |
| 3         |   |   |   |              |   |   |   |   |
| 4         |   |   |   |              |   |   |   |   |
| 5         |   |   |   |              |   |   |   |   |
| 6         |   |   |   |              |   |   |   |   |
| 7         |   |   |   |              |   |   |   |   |
| 8         |   |   |   |              |   |   |   |   |

**N\_ANT :** 0 = Switch on RF field  
 1 = Switch off RF field

## PROCESS DATA MODE READ/WRITE

### PROCESS DATA INPUT

| Bitoffset | 7                          | 6          | 5          | 4          | 3 | 2 | 1 | 0          |
|-----------|----------------------------|------------|------------|------------|---|---|---|------------|
| 0         | <b>RDY</b>                 | <b>ERR</b> | <b>TAG</b> | <b>ANT</b> |   |   |   | <b>EXT</b> |
| 1         | <b>Data 0 / Error Code</b> |            |            |            |   |   |   |            |
| 2         | <b>Data 1</b>              |            |            |            |   |   |   |            |
| 3         | <b>Data 2</b>              |            |            |            |   |   |   |            |
| 4         | <b>Data 3</b>              |            |            |            |   |   |   |            |
| 5         | <b>Extended Data 4</b>     |            |            |            |   |   |   |            |
| 6         | <b>Extended Data 5</b>     |            |            |            |   |   |   |            |
| 7         | <b>Extended Data 6</b>     |            |            |            |   |   |   |            |
| 8         | <b>Extended Data 7</b>     |            |            |            |   |   |   |            |

RDY : 0 = No data available yet  
1 = Command executed and data ready for user

ERR : 0 = Command executed and no error  
1 = Command executed but error

TAG : 0 = No tag present in front of the RWM  
1 = Tag present in front of the RWM

ANT : 0 = RF field off  
1 = RF field on

EXT : 0 = 4 bytes data  
1 = 8 bytes data

Data 0 : Read data LSB / Error Code  
Data 3 / 7 : Read data MSB

### Error Code Definition

|                     |       |
|---------------------|-------|
| CommandNotSupported | = 1,  |
| FormatError         | = 2,  |
| OptionNotSupported  | = 3,  |
| CommandProblem      | = 5,  |
| CommTagError        | = 6,  |
| TagError            | = 15, |
| NoMemoryBloc        | = 16, |
| BlocProtected       | = 18, |

### PROCESS DATA OUTPUT

| Bitoffset | 7                      | 6 | 5 | 4            | 3 | 2          | 1 | 0          |
|-----------|------------------------|---|---|--------------|---|------------|---|------------|
| 0         | <b>START</b>           |   |   | <b>N_ANT</b> |   | <b>CMD</b> |   | <b>EXT</b> |
| 1         | <b>ADD</b>             |   |   |              |   |            |   |            |
| 2         | <b>Data 0</b>          |   |   |              |   |            |   |            |
| 3         | <b>Data 1</b>          |   |   |              |   |            |   |            |
| 4         | <b>Data 2</b>          |   |   |              |   |            |   |            |
| 5         | <b>Data 3</b>          |   |   |              |   |            |   |            |
| 6         | <b>Extended Data 4</b> |   |   |              |   |            |   |            |
| 7         | <b>Extended Data 5</b> |   |   |              |   |            |   |            |
| 8         | <b>Extended Data 6</b> |   |   |              |   |            |   |            |
| 9         | <b>Extended Data 7</b> |   |   |              |   |            |   |            |

START : 0 = Do not execute the command  
1 = Execute the command

N\_ANT : 0 = Switch on RF field  
1 = Switch off RF field

CMD : 0 = No command  
1 = Read  
2 = Write

EXT : 0 = 4 bytes data  
1 = 8 bytes data

ADD : Block address  
Data 0 : Write data LSB  
Data 3 / 7 : Write data MSB

### SYSTEM COMMAND (idx 02<sub>n</sub>)

| Value hex       | Value dec | Function                  |
|-----------------|-----------|---------------------------|
| 05 <sub>n</sub> | 5         | ParamDownloadStore        |
| 80 <sub>n</sub> | 128       | Device Reset              |
| 82 <sub>n</sub> | 130       | Restore factory settings* |

\*always do a reset after the restore of factory settings

## MASTER TAG CONFIGURATION

For the RLS-1181-320, the IO-Link mode or the SIO (standard I/O mode) can be configured via IO-Link or via a Master Tag.

For the configuration via a Master Tag, a transponder (called Master Tag) will contain all the data used for the configuration. The structure of the data are explained in the table on page 7.

There is a simple procedure to configure the RWM. Once all the data are written in the Master Tag, you need to put it in front of the RWM sensing face, to switch off the RWM power supply and to switch on again. The RWM will detect that it's a Master Tag and read all the data and configure the outputs accordingly.

On the Contrinex webpage ([www.contrinex.com](http://www.contrinex.com)) it is possible to download a software to setup the Master Tag via a Contrinex USB RWM. This program is called "IO-Link Master Tag programmer".

### SIO MODE POSSIBILITIES

If you use the RLS-1181-320 in a SIO mode, you will have two main possibilities:

1. Presence Transponder:  
In this mode, the output will switch if a transponder is in the field of the RWM.
2. Compare Data:  
In this mode, the output will switch if the data read in the defined block memory of the transponder matches with the data stocked in the RWM.

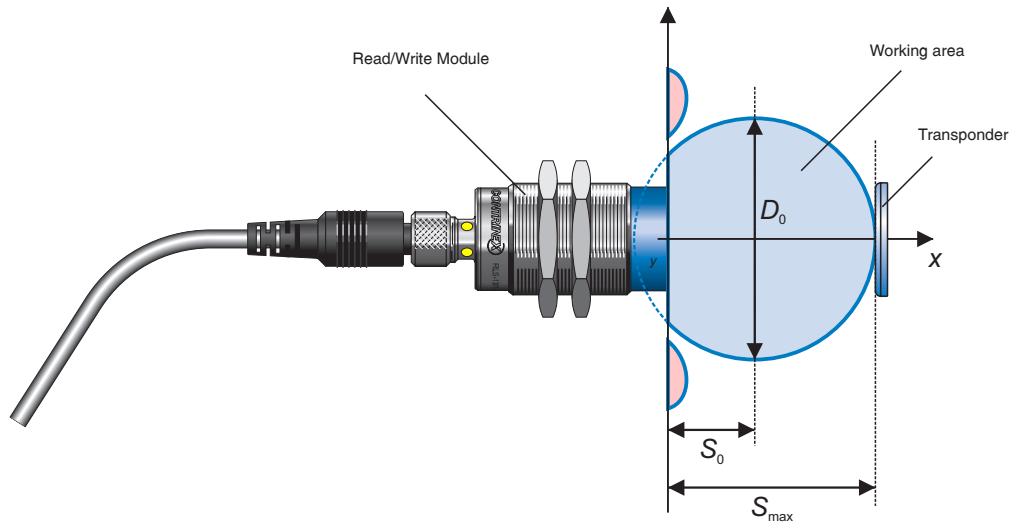
### MASTER TAG

To build a Master Tag it's possible to use any ISO15693 chip with at least eight memory blocks with 32 bits each.

| CONFIGURATION PARAMETER (IO-LINK / SIO MODE)        |                                  |                 |                                      |           |  |  |  |
|---|----------------------------------|-----------------|--------------------------------------|-----------|--|--|--|
| Bloc + A1:H18                                       | Byte                             | Offset          | Name                                 | Data Type | Value  | Default  | Comment  |
| <b>READER PARAMETER PROCESS DATA (IO-LINK MODE)</b> |                                  |                 |                                      |           |  |  |  |
| 0 <sub>h</sub>                                      | 0 <sub>h</sub>                   | 0 <sub>h</sub>  | Operating Mode                       | uint8     | FF <sub>h</sub> : Scan UID<br>00 <sub>h</sub> : Scan User Data<br>01 <sub>h</sub> : Read / Write Command   | FF <sub>h</sub>  | See process data organisation                            |
| 0 <sub>h</sub>                                      | 1 <sub>h</sub>                   | 1 <sub>h</sub>  | Data Hold Time                       | uint8     | FF <sub>h</sub> : No Hold Time<br>00 <sub>h</sub> : Hold Time 100 ms<br>01 <sub>h</sub> : Hold Time 200 ms<br>02 <sub>h</sub> : Hold Time 500 ms<br>03 <sub>h</sub> : Hold Time 1000 ms<br>04 <sub>h</sub> : Hold Time 2000 ms | FF <sub>h</sub>  |  |
| 0 <sub>h</sub>                                      | 2 <sub>h</sub>                   | 2 <sub>h</sub>  | Scan Address                         | uint8     | Address to scan  | FF <sub>h</sub>  | Addres to scan in user data                              |
| <b>READER PARAMETER SIO (SIO MODE)</b>              |                                  |                 |                                      |           |  |  |  |
| 0 <sub>h</sub>                                      | 3 <sub>h</sub>                   | 3 <sub>h</sub>  | C/Q1 PIN SIO Operating Mode          | uint8     | FF <sub>h</sub> : Presence Transponder<br>00 <sub>h</sub> : Compare Data<br>01 <sub>h</sub> : No SIO   | FF <sub>h</sub>  |  |
| 1 <sub>h</sub>                                      | 3 <sub>h</sub> ...0 <sub>h</sub> | 4 <sub>h</sub>  | C/Q1 SIO Data to compare H           | uint32    | Comparison value Byte 7 to 4   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> | Ext. Data 7<br>Ext. Data 6<br>Ext. Data 5<br>Ext. Data 4 |
| 2 <sub>h</sub>                                      | 3 <sub>h</sub> ...0 <sub>h</sub> | 8 <sub>h</sub>  | C/Q1 SIO Data to compare L           | uint32    | Comparison value Byte 3 to 0   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> | Data 3, Data 2,<br>Data 1, Data 0                        |
| 3 <sub>h</sub>                                      | 0 <sub>h</sub>                   | C <sub>h</sub>  | SIO Compare Data Address (C/Q1 & Q2) | uint8     | Comparison address for C/Q1 and Q2 (A valid address must be chosen)  | FF <sub>h</sub>  |  |
| 3 <sub>h</sub>                                      | 1 <sub>h</sub>                   | D <sub>h</sub>  | Data Hold Time Output (C/Q1 & I/Q2)  | uint8     | FF <sub>h</sub> : No Hold Time<br>00 <sub>h</sub> : Hold Time 100 ms<br>01 <sub>h</sub> : Hold Time 200 ms<br>02 <sub>h</sub> : Hold Time 500 ms<br>03 <sub>h</sub> : Hold Time 1000 ms<br>04 <sub>h</sub> : Hold Time 2000 ms | FF <sub>h</sub>  |  |
| 3 <sub>h</sub>                                      | 2 <sub>h</sub>                   | E <sub>h</sub>  | C/Q1 PIN SIO Polarity                | uint8     | FF <sub>h</sub> : Output "close" if condition = true<br>00 <sub>h</sub> : Output "open" if condition = true  | FF <sub>h</sub>  |  |
| 3 <sub>h</sub>                                      | 2 <sub>h</sub>                   | F <sub>h</sub>  | Q2 PIN SIO Operating Mode            | uint8     | FF <sub>h</sub> : Presence Transpondere<br>00 <sub>h</sub> : Compare Data<br>01 <sub>h</sub> : No SIO  | FF <sub>h</sub>  |  |
| 4 <sub>h</sub>                                      | 3 <sub>h</sub> ...0 <sub>h</sub> | 10 <sub>h</sub> | Q2 SIO Data to compare H             | uint32    | Comparison value Byte 7 to 4   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> | Ext. Data 7<br>Ext. Data 6<br>Ext. Data 5<br>Ext. Data 4 |
| 5 <sub>h</sub>                                      | 3 <sub>h</sub> ...0 <sub>h</sub> | 14 <sub>h</sub> | Q2 SIO Data to compare L             | uint32    | Comparison value Byte 3 to 0   | FF <sub>h</sub> , FF <sub>h</sub> ,<br>FF <sub>h</sub> , FF <sub>h</sub> | Data 3, Data 2,<br>Data 1, Data 0                        |
| 6 <sub>h</sub>                                      | 0 <sub>h</sub>                   | 18 <sub>h</sub> | Q2 PIN SIO Polarity                  | uint8     | FF <sub>h</sub> : Output "close" if condition = true<br>00 <sub>h</sub> : Output "open" if condition = true  | FF <sub>h</sub>  |  |
| <b>CRC</b>  |                                  |                 |                                      |           |  |  |  |
| 7 <sub>h</sub>                                      | 3 <sub>h</sub> ...0 <sub>h</sub> | 1C <sub>h</sub> | CRC CHECK                            | uint32    | CRC32 on all config field with polynom:<br>$X^{32}+X^{26}+X^{23}+X^{22}+X^{16}+X^{12}+X^{11}+X^{10}+X^8+X^7+X^5+X^4+X^2+X^1+X^0$   |  |  |

## POSSIBLE COMBINATION AND TYPICAL DISTANCE - RLS-1181-320

| Transponder type  | $S_{max}$ | $S_0$ | $D_0$ |
|-------------------|-----------|-------|-------|
| Ø 9 RTP-0090-020  | 9         | 2.5   | 13    |
| Ø 20 RTP-0201-020 | 14        | 4.5   | 19    |
| Ø 26 RTP-0263-020 | 22        | 9     | 26    |
| Ø 30 RTP-0301-020 | 29        | 12    | 34    |
| Ø 50 RTP-0501-020 | 24        | 1     | 46    |
| Ø 50 RTP-0502-022 | 42        | 17    | 50    |



### AVAILABLE TYPES

| Part number | Part reference | Ø   | Mounting       | Connection |
|-------------|----------------|-----|----------------|------------|
| 720 100 206 | RLS-1181-320   | M18 | Non-embeddable | M12 4-pin  |

Operators of the products we supply are responsible for compliance with measures for the protection of persons. The use of our equipment in applications where the safety of persons might be at risk is only authorized if the operator observes and implements separate, appropriate and necessary measures for the protection of persons and machines. Terms of delivery and rights to change design reserved.