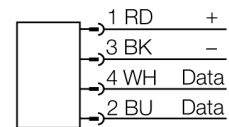
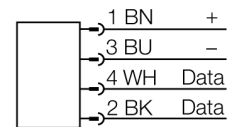


- Rectangular, height 40 mm
- Active face on top
- Plastic, PBT-GF30-VO
- Every read/write head can communicate with a number of different TURCK data carriers.
- Powered and operated only via BL ident interface module
- Male M12 x 1, only for use with BL ident extension cable

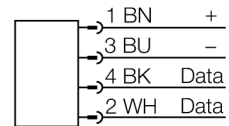
Connectors .../S2503



Connectors .../S2500



Connectors .../S2501



Functional principle

The HF read/write heads operating at a frequency of 13.56 MHz form a transmission zone the size of which (0...500 mm) varies, depending on the combination of read/write head and data carrier.

The read/write distances mentioned here only represent standard values measured under laboratory conditions.

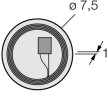
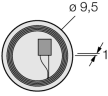


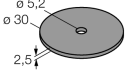
The read/write distances of the data carriers for mounting in metal TW-R**-M(MF) were determined in metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal)

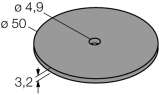
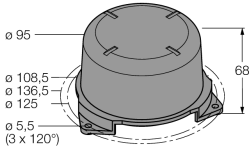
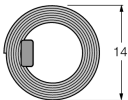
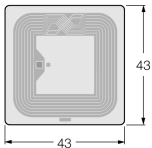
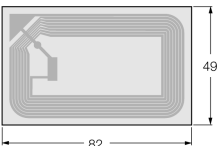
Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

| | |
|--|---|
| Type code | TNLR-Q80-H1147 |
| Ident no. | 7030230 |
| Mounting condition | non-flush, flush mountable |
| Ambient temperature | -25...+70 °C |
| Operating voltage | 19.2...28.8VDC |
| DC rated operational current | ≤ 90 mA |
| Data transfer | inductive coupling |
| Operating frequency | 13.56 MHz |
| Radio communication and protocol standards | ISO 15693 |
| Read/write distance max. | 215 mm |
| Output function | 4-wire, read/write |
| Design | rectangular, Q80 |
| Dimensions | 92x 80x 40mm |
| Housing material | Plastic, PBT, yellow |
| Material active face | Plastic, PBT, yellow |
| Connection | male, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP67 |
| MTTF | 248 years acc. to SN 29500 (Ed. 99) 40 °C |
| Operating voltage | LED green |

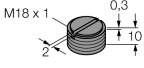
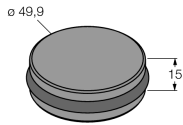
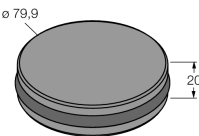
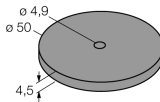
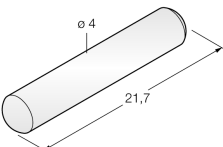
Data carrier

| Dimensions | Type designation Ident - no. | Read-write distance | | Transfer zone | | Minimum distance between two read-write heads [mm] |
|---|-------------------------------------|---------------------|-----------|------------------|------------------------|---|
| | | Recommend-ed (mm) | max. [mm] | length max. [mm] | width offset max. [mm] | |
|  | TW-R7.5-B128 7030231 | 20 | 41 | 60 | 30 | 240 |
|  | TW-R9.5-B128 7030252 | 22 | 45 | 66 | 33 | 240 |
|  | TW-R16-B128 6900501 | 50 | 85 | 90 | 45 | 240 |
|  | TW-R20-B128 6900502 | 50 | 88 | 92 | 47 | 240 |
| | TW-R20-K2 6900505 | 40 | 75 | 84 | 42 | 240 |
|  | TW-R30-B128 6900503 | 60 | 115 | 116 | 58 | 240 |
| | TW-R30-K2 6900506 | 60 | 98 | 104 | 52 | 240 |

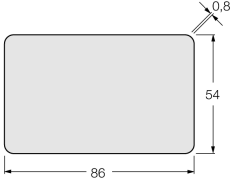
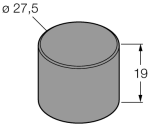
Data carrier

| Dimensions | Type designation Ident - no. | Read-write distance | | Transfer zone | | Minimum distance between two read-write heads [mm] |
|---|--|-----------------------|------------|---------------------|---------------------------|---|
| | | Recommend- ed (mm) | max. [mm] | length max. [mm] | width offset max. [mm] | |
|  | TW-R50-B128 6900504 TW-R50-K2 6900507 | 80 90 | 165 144 | 168 150 | 84 75 | 240 240 |
| | TW-R50-90-HT-B128 1542326 TW-R50-90-HT-K2 1542329 | 50 60 | 135 114 | 168 150 | 84 75 | 240 240 |
|  | TW-I14-B128 6900526 | 50 | 85 | 90 | 50 | 240 |
|  | TW-L49-46-F-B128 7030390 | 76 | 131 | 136 | 68 | 240 |
|  | TW-L80-50-P-B128 7030389 | 76 | 142 | 144 | 72 | 240 |
|  | | | | | | |

Data carrier

| Dimensions | Type designation Ident - no. | Read-write distance | | Transfer zone | | Minimum distance between two read-write heads [mm] |
|---|---|--|-----------|---------------------|---------------------------|---|
| | | Recommend- ed (mm) | max. [mm] | length max. [mm] | width offset max. [mm] | |
|  | TW-SPP18X1-B128 6901062 | 30 | 66 | 80 | 40 | 240 |
| |  | TW-R50-M-B128 7030209 TW-R50-M-K2 7030229 | 35 30 | 58 58 | 64 76 | 32 38 |
|  | TW-R80-M-B128 7030207 TW-R80-M-K2 7030205 | 50 35 | 90 78 | 90 80 | 45 40 | 240 240 |
| |  | TW-R50-MF-K2 7030232 | 30 | 57 | 70 | 35 |
|  | TW-R4-22-B128 7030237 | 40 | 73 | 86 | 43 | 240 |

Data carrier

| Dimensions | Type designation Ident - no. | Read-write distance | | Transfer zone | | Minimum distance between two read-write heads [mm] |
|--|-------------------------------------|-----------------------|-----------|---------------------|---------------------------|---|
| | | Recommend- ed (mm) | max. [mm] | length max. [mm] | width offset max. [mm] | |
|  | TW-L86-54-C-B128 6900479 | 120 | 215 | 214 | 107 | 240 |
|  | TW-R27.5-19-B128 7030315 | 60 | 94 | 94 | 47 | 240 |