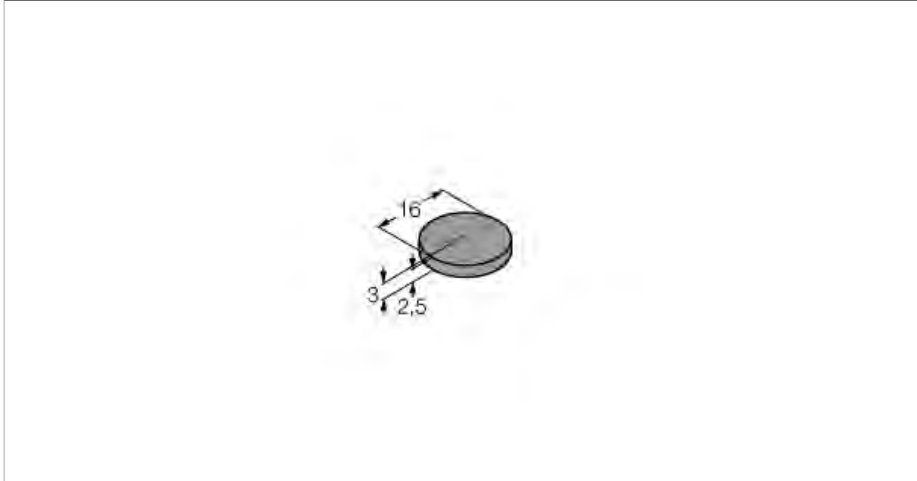


Mobile data carrier

TW-R16-B128



- mobile data carrier
- read/write
- compatible with a series of BL ident read-write heads (see data sheet or compatibility table)
- EEPROM, memory size 128 bytes

Functional principle

The HF read-write heads and the work 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.

Due to component tolerances, mounting conditions, ambient conditions and material influences (especially metal,) attainable distances can deviate by 30 %.

Therefore testing of the application under real operating conditions is indispensable (especially regarding read-write on the fly)!

Type	TW-R16-B128
Ident-No.	6900501
Data transfer	inductance coupling
Working frequency	13.56 MHz
Memory	read/write
Memory type	EEPROM
Memory size	128 Byte
Freely usable memory	112 Byte
Number of read operations	unlimited
Number of write operations	10 ⁵
Typical read time	2 ms/byte
Typical write time	3 ms/byte
Radio communication and protocol standards	ISO 15693
Minimum distance to metal	10 mm
Ambient temperature	-25...+85°C
Storage temperature	-25...+120°C 160°C, 1x35 h 220°C, 1x30 s
Housing	R16
Housing material	Plastic, PA6
Material active face	Plastic
Protection class	IP69K
Packaged quantity	1

Mobile data carrier

TW-R16-B128

Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Ident - no.	Recom- mend- ed (mm)	max. [mm]	length max. [mm]	
	TB-M18-H1147 7030001	10	17	14	7	54
	TB-EM18WD-H1147 7030224	10	17	14	7	54
	TB-M18-H1147/S1126 7030212	10	17	14	7	54
	TB-EM18WD-H1147/S1126 7030228	10	17	14	7	54
	TN-M18-H1147 7030002	12	23	26	13	54
	TN-EM18WD-H1147 7030223	12	23	26	13	54
	TN-M18-H1147/S1126 7030213	12	23	26	13	54
	TN-EM18WD-H1147/S1126 7030227	12	23	26	13	54
	TB-M30-H1147 7030003	12	23	20	10	90
	TB-EM30WD-H1147 7030221	12	23	20	10	90
	TB-M30-H1147/S1126 7030214	12	23	20	10	90
	TB-EM30WD-H1147/S1126 7030225	12	23	20	10	90
	TN-M30-H1147 7030004	20	38	44	22	90
	TN-EM30WD-H1147 7030222	20	38	44	22	90
	TN-M30-H1147/S1126 7030215	20	38	44	22	90
	TN-EM30WD-H1147/S1126 7030226	20	38	44	22	90

Mobile data carrier

TW-R16-B128

Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Ident - no.	Recom-mend-ed (mm)	max. [mm]	length max. [mm]	
	TN-CK40-H1147 7030006	28	50	54	27	120
	TN-CK40-H1147/S1126 7030216	28	50	54	27	120
	HT-IDENT-H1147 7030236	28	50	54	27	120
	HT-IDENT-H1187 7030238	28	50	54	27	120
	TN-Q14-0.15-RS4.47T 7030235	20	38	44	22	90

Mobile data carrier

TW-R16-B128

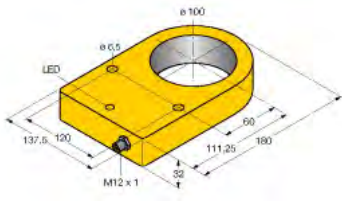
Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Ident - no.	Recom-mend-ed (mm)	max. [mm]	length max. [mm]	
	TN-Q80-H1147 7030007	20	52	60	30	240
	TN-Q80-H1147/S1126 7030217	20	52	60	30	240
	TNLR-Q80-H1147 7030230	50	85	90	45	240
	TNLR-Q80-H1147/S1126 7030219	50	85	90	50	240
	TNLR-Q80L400-H1147 7030204 Lengthwise	30	95	410	205	240
	TNLR-Q80L400-H1147 7030204	50	95	74	37	240
	TNLR-Q80L400-H1147L 7030234	50	95	74	37	240
	TNLR-Q80L400-H1147L 7030234 Lengthwise	30	95	410	205	240
	TNLR-Q350-H1147 7030220	60	203	360	180	1110
	TNLR-Q350-H1147 7030220	60	203	360	180	1110
	TNLR-Q350-H1147/S1126 7030319	60	203	360	180	1110

Mobile data carrier

TW-R16-B128

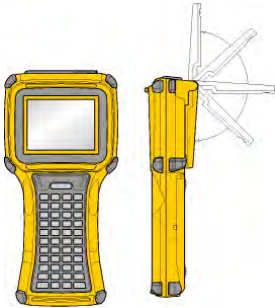
Read/write heads

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
	Ident - no.	Recom- mend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	TN-S32XL-H1147	20	67	125	62	420
	7030008					

Mobile data carrier

TW-R16-B128

Compatible handhelds



PD-IDENT

1542331

Handheld for mobile reading and writing on data carriers.



PDA-IDENT

1542344

The handheld can be used with two different antennas.

Internal antenna, PDA-IDENT-IA, 1542345

External antenna, PDA-IDENT-EA, 1542346

RFID System - Read/Write Head

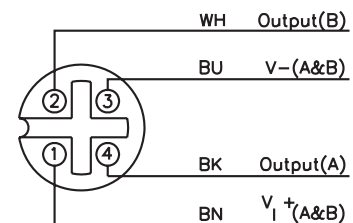
- Rectangular, 40 mm High
- 5-positions Turnable
- Plastic, PBT-GF30-V0
- Partial Embedding
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *euromast*[®], Connection via *BL ident* Connecting Cable



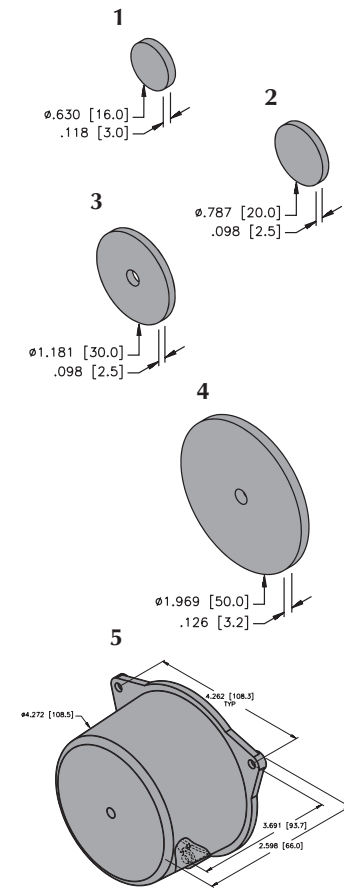
Housing	Part Number	Function Principle
	TN-Q80-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .512-4.606 in. (13-117 mm). TAGs available with EEPROM or FRAM memory.</p>

Part Number	TN-Q80-H1147
ID Number	M7030007
Mounting Mode	Non flush, flush mounting possible
Ambient temperature	-25 to +70°C (-13 to +158°F)
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz
Housing	Rectangular, CK40
Housing material	Plastic, PBT-GF30-V0, yellow
Material active face	Plastic, PBT-GF30-V0, yellow
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz
Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	1.220 (31)	.512 (13)	2.480 (63)	1.968 (50)	2.480 (63)	9.921 (252)
	2	TW-R20-B128	M6900502	1.299 (33)	.709 (18)	2.638 (67)	2.244 (57)	2.835 (72)	11.339 (288)
	3	TW-R30-B128	M6900503	1.575 (40)	.866 (22)	3.150 (80)	2.520 (64)	3.189 (81)	12.756 (324)
	4	TW-R50-B128	M6900504	2.283 (58)	1.220 (31)	4.606 (117)	3.661 (93)	4.606 (117)	18.425 (468)
	2	TW-R20-K2	M6900505	1.181 (30)	.630 (16)	2.362 (60)	2.008 (51)	2.520 (64)	10.079 (256)
	3	TW-R30-K2	M6900506	1.417 (36)	.787 (20)	2.835 (72)	2.283 (58)	2.835 (72)	11.339 (288)
	4	TW-R50-K2	M6900507	2.047 (52)	1.063 (27)	4.134 (105)	3.268 (83)	4.134 (105)	16.535 (420)
	5	TW-R50-90-HT-B128	M1542326	2.283 (58)	1.220 (31)	4.606 (117)	3.661 (93)	4.606 (117)	18.425 (468)
	5	TW-R50-90-HT-K2	M1542329	2.047 (52)	1.063 (27)	4.134 (105)	3.268 (83)	4.134 (105)	16.535 (420)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F); (-40 to +210°C (-40 to +410°F) for TW-R*-HT....).

RFID System - Read/Write Head

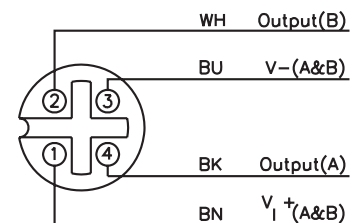
- Rectangular, 40 mm High
- 5-positions Turnable
- Plastic, PBT-GF30-V0
- Partial Embedding
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *euromast*[®], Connection via *BL ident* Connecting Cable



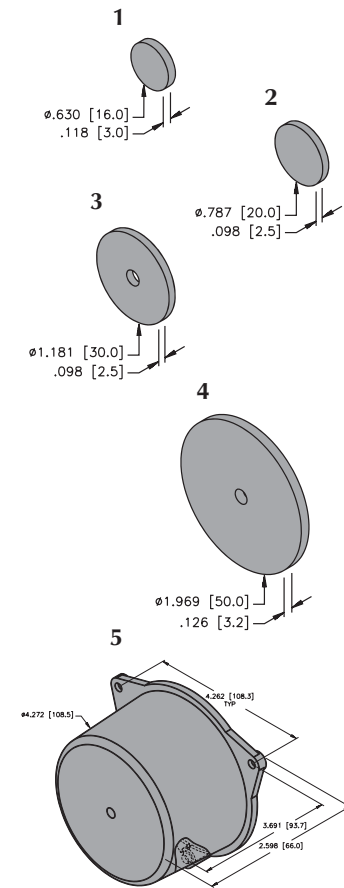
Housing	Part Number	Function Principle
	TN-CK40-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .433-3.184 in. (11-81 mm). TAGs available with EEPROM or FRAM memory.</p>

Part Number	TN-CK40-H1147
ID Number	M7030006
Mounting Mode	Non flush, flush mounting possible
Ambient temperature	-25 to +70°C (-13 to +158°F)
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz
Housing	Rectangular, CK40
Housing material	Plastic, PBT-GF30-V0, black
Material active face	Plastic, PBT-GF30-V0, yellow
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz
Wiring	
Maximum cable length	50 m
Accessories	Fixing clamp BS4-CK40 (included in delivery)

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		minimum between two read/write heads ¹
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	.866 (22)	.433 (11)	1.772 (45)	1.260 (32)	1.575 (40)	6.299 (160)
	2	TW-R20-B128	M6900502	.945 (24)	.472 (12)	1.929 (49)	1.457 (37)	1.850 (47)	7.402 (188)
	3	TW-R30-B128	M6900503	1.063 (27)	.512 (13)	2.126 (54)	1.693 (43)	2.126 (54)	8.504 (216)
	4	TW-R50-B128	M6900504	1.575 (40)	.866 (22)	3.189 (81)	2.520 (64)	3.189 (81)	12.756 (324)
	2	TW-R20-K2	M6900505	.866 (22)	.394 (10)	1.732 (44)	1.299 (33)	1.654 (42)	6.614 (168)
	3	TW-R30-K2	M6900506	.945 (24)	.433 (11)	1.890 (48)	1.496 (38)	1.890 (48)	7.559 (192)
	4	TW-R50-K2	M6900507	1.417 (36)	.748 (19)	2.835 (72)	2.244 (57)	2.835 (72)	11.339 (288)
	5	TW-R50-90-HT-B128	M1542326	1.575 (40)	.866 (22)	3.189 (81)	2.520 (64)	3.189 (81)	12.756 (324)
	5	TW-R50-90-HT-K2	M1542329	1.417 (36)	.748 (19)	2.835 (72)	2.244 (57)	2.835 (72)	11.339 (288)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F); (-40 to +210°C (-40 to +410°F) for TW-R*-HT....).

RFID System - Read/Write Head

- Threaded Barrel, M30x1.5, Chrome Plated Brass
- Flush Mounting
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *euromast*[®], Connection via *BL ident* Connecting Cable

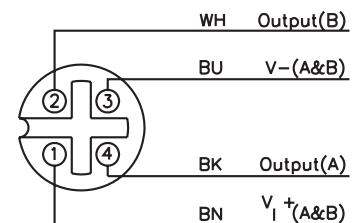


Housing	Part Number	Function Principle
	TN-M30-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .354-2.126 in. (9-54 mm). TAGs available with EEPROM or FRAM memory.</p>

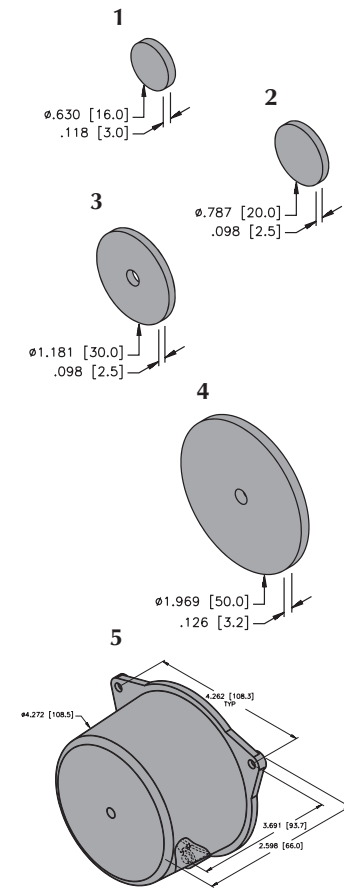
Part Number	TN-M30-H1147
ID Number	M7030004
Mounting Mode	Flush
Ambient temperature	-25 to +70°C (-13 to +158°F)
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz
Housing	Threaded barrel, M30x1
Housing material	Metal, CuZn, chrome plated
Material active face	Plastic, PA12-GF30
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz

Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		minimum between two read/write heads ¹
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	.630 (16)	.354 (9)	1.260 (32)	1.102 (28)	1.417 (36)	5.669 (144)
	2	TW-R20-B128	M6900502	.630 (16)	.394 (10)	1.299 (33)	1.102 (28)	1.299 (33)	5.197 (132)
	3	TW-R30-B128	M6900503	.787 (20)	.433 (11)	1.575 (40)	1.260 (32)	1.614 (41)	6.457 (164)
	4	TW-R50-B128	M6900504	1.063 (27)	.512 (13)	2.126 (54)	1.968 (50)	2.480 (63)	9.921 (252)
	2	TW-R20-K2	M6900505	.551 (14)	.315 (8)	1.142 (29)	1.024 (26)	1.142 (29)	4.567 (116)
	3	TW-R30-K2	M6900506	.709 (18)	.394 (10)	1.417 (36)	1.102 (28)	1.417 (36)	5.669 (144)
	4	TW-R50-K2	M6900507	.945 (24)	.472 (12)	1.890 (48)	1.772 (45)	2.205 (56)	8.819 (224)
	5	TW-R50-90-HT-B128	M1542326	1.063 (27)	.512 (13)	2.126 (54)	1.968 (50)	2.480 (63)	9.921 (252)
	5	TW-R50-90-HT-K2	M1542329	.945 (24)	.472 (12)	1.890 (48)	1.772 (45)	2.205 (56)	8.819 (224)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F); (-40 to +210°C (-40 to +410°F) for TW-R*-HT....).

RFID System - Read/Write Head

- Threaded Barrel, M30x1.5, Chrome Plated Brass
- Flush Mounting
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *euromast*[®], Connection via *BL ident* Connecting Cable



Housing	Part Number	Function Principle
	TB-M30-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .354-1.417 in. (9-36 mm). TAGs available with EEPROM or FRAM memory.</p>

Part Number	TB-M30-H1147
ID Number	M7030003

Mounting Mode	Flush
Ambient temperature	-25 to +70°C (-13 to +158°F)

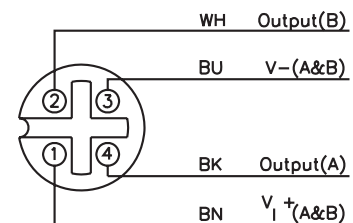
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz

Housing	Threaded barrel, M30 x 1.5
Housing material	Metal, CuZn, chrome plated
Material active face	Plastic, PA12-GF30
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67

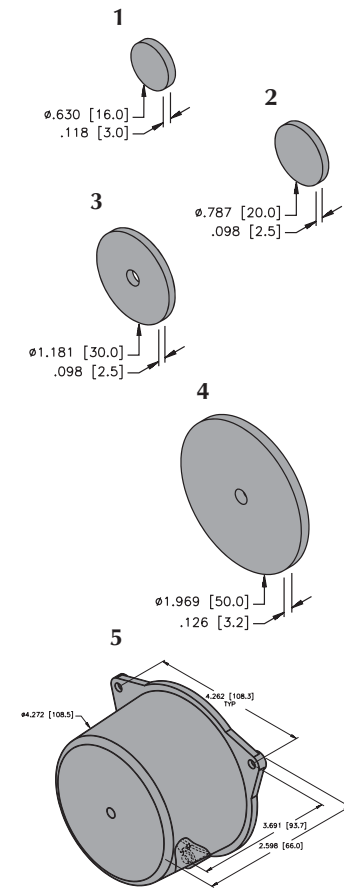
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz

Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		minimum between two read/write heads ¹
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	.433 (11)	.354 (9)	.866 (22)	.669 (17)	.866 (22)	3.465 (88)
	2	TW-R20-B128	M6900502	.472 (12)	.394 (10)	.945 (24)	.748 (19)	.945 (24)	3.780 (96)
	3	TW-R30-B128	M6900503	.551 (14)	.433 (11)	1.102 (28)	.827 (21)	1.102 (28)	4.409 (112)
	4	TW-R50-B128	M6900504	.709 (18)	.512 (13)	1.417 (36)	1.220 (31)	1.535 (39)	6.142 (156)
	2	TW-R20-K2	M6900505	.394 (10)	.236 (6)	.827 (21)	.630 (16)	.827 (21)	3.307 (84)
	3	TW-R30-K2	M6900506	.472 (12)	.354 (9)	.984 (25)	.748 (19)	.984 (25)	3.937 (100)
	4	TW-R50-K2	M6900507	.630 (16)	.472 (12)	1.260 (32)	.945 (24)	1.378 (35)	5.512 (140)
	5	TW-R50-90-HT-B128	M1542326	.709 (18)	.512 (13)	1.417 (36)	1.220 (31)	1.535 (39)	6.142 (156)
	5	TW-R50-90-HT-K2	M1542329	.630 (16)	.472 (12)	1.260 (32)	.945 (24)	1.378 (35)	5.512 (140)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F); (-40 to +210°C (-40 to +410°F) for TW-R*-HT....).

RFID System - Read/Write Head

- Threaded Barrel, M18x1, Chrome Plated Brass
- Flush Mounting
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *eufofast*[®], Connection via *BL ident* Connecting Cable



Housing	Part Number	Function Principle
	TN-M18-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .157-1.417 in. (4-36 mm). TAGs available with EEPROM or FRAM memory.</p>

Part Number	TN-M18-H1147
ID Number	M7030002

Mounting Mode	Non flush
Ambient temperature	-25 to +70°C (-13 to +158°F)

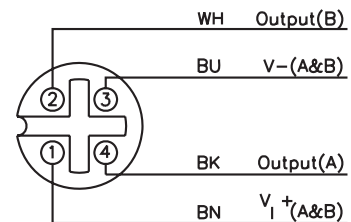
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz

Housing	Threaded barrel, M18 x 1
Housing material	Metal, CuZn, chrome plated
Material active face	Plastic, PA12-GF30
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67

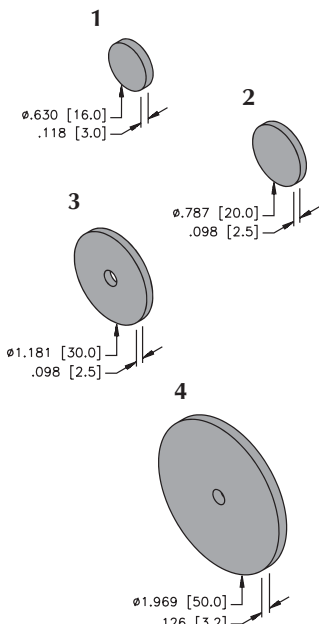
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz

Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	min. inches (mm)	max. inches (mm)	minimum between two read/write heads ¹ inches (mm)
	1	TW-R16-B128	M6900501	.472 (12)	.157 (4)	.984 (25)	.827 (21)	1.063 (27)	4.252 (108)
	2	TW-R20-B128	M6900502	.512 (13)	.197 (5)	1.024 (26)	.906 (23)	1.142 (29)	4.567 (116)
	3	TW-R30-B128	M6900503	.512 (13)	.236 (6)	1.063 (27)	.945 (24)	1.220 (31)	4.882 (124)
	4	TW-R50-B128	M6900504	.709 (18)	.354 (9)	1.417 (36)	1.535 (39)	1.929 (49)	7.717 (196)
	2	TW-R20-K2	M6900505	.433 (11)	.157 (4)	.906 (23)	.551 (14)	1.024 (26)	4.094 (104)
	3	TW-R30-K2	M6900506	.472 (12)	.236 (6)	.945 (24)	.827 (21)	1.063 (27)	4.252 (108)
	4	TW-R50-K2	M6900507	.630 (16)	.315 (8)	1.260 (32)	.827 (21)	1.732 (44)	6.929 (176)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F).

RFID System - Read/Write Head

- Threaded Barrel, M18x1, Chrome Plated Brass
- Flush Mounting
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *eufofast*[®], Connection via *BL ident* Connecting Cable



Housing	Part Number	Function Principle
	TB-M18-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .157-.433 in. (4-11 mm). TAGs available with EEPROM or FRAM memory.</p>

Part Number	TB-M18-H1147
ID Number	M7030001

Mounting Mode	Flush
Ambient temperature	-25 to +210°C (-13 to +410°F)

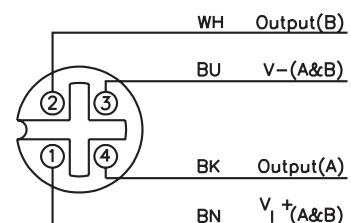
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz

Housing	Threaded barrel, M18x1
Housing material	Metal, CuZn, chrome plated
Material active face	Plastic, PA12-GF30
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67

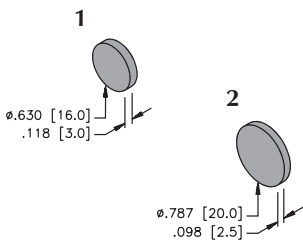
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz

Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		minimum between two read/write heads ¹
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	.236 (6)	.157 (4)	.512 (13)	.551 (14)	.709 (18)	2.835 (72)
	2	TW-R20-B128	M6900502	.236 (6)	.157 (4)	.512 (13)	.630 (16)	.827 (21)	3.307 (84)
	2	TW-R20-K2	M6900505	.197 (5)	.157 (4)	.433 (11)	.433 (11)	.709 (18)	2.835 (72)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F).

RFID System - Read/Write Head

- Ring Type, 32 mm High
- Plastic, ABS
- Non-flush Mountable
- Power Supply (24 VDC) and Function via *BL ident* Interfaces
- Connector (M12) *euofast*[®], Connection via *BL ident* Connecting Cable



Housing	Part Number	Function Principle
	TN-S32XL-H1147	<p>The <i>BL ident</i> read/write head (transceiver) is used to exchange data with the data carrier (TAG). Together they form an air interface whose size depends on the combination of transceiver and TAG. The data carriers are passive. When they enter the air interface of the transceiver, the power from the transceiver is transferred inductively and data transfer completed.</p> <p><i>BL ident</i> TAGs on the following page can be combined with this <i>BL ident</i> transceiver. The read/write interval varies between .630-5.669 in. (16-144 mm). All TAGs available with EEPROM or FRAM memory.</p>

Part Number	TN-S32XL-H1147
ID Number	M7030008
Mounting Mode	Non flush
Ambient temperature	-25 to +70°C (-13 to +158°F)

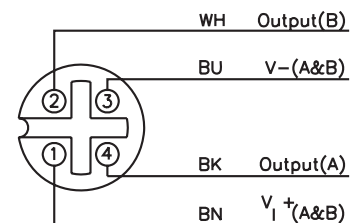
Data Transfer	Inductive
Output function	4-wire, write/read
Operating frequency	13.56 MHz

Housing	Ring type, S32
Ring inner diameter	100 mm
Housing material	Plastic
Material active face	Plastic, ABS, yellow
Connection	Connector, M12x1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection	IP 67

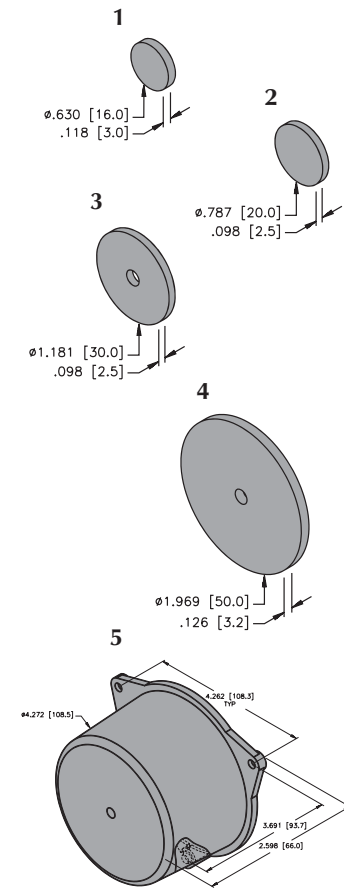
Power On Indication	LED solid
Read/write head off	LED .5 Hz
TAG with air interface	LED 3 Hz

Wiring	
Maximum cable length	50 m

Pinout



Mating Cordset:
RK 4.5T-*-RS 4.5T/S2501

Housing	Fig.	Part Number	ID Number	Read/Write Range			Zone Width		Distance
				Recomm. inches (mm)	min. inches (mm)	max. inches (mm)	Length		
							min. inches (mm)	max. inches (mm)	inches (mm)
	1	TW-R16-B128	M6900501	1.220 (31)	.630 (16)	2.480 (63)	2.835 (72)	3.543 (90)	14.173 (360)
	2	TW-R20-B128	M6900502	1.417 (36)	.709 (18)	2.835 (72)	3.228 (82)	4.055 (103)	16.220 (412)
	3	TW-R30-B128	M6900503	1.772 (45)	.866 (22)	3.543 (90)	3.661 (93)	4.606 (117)	18.425 (468)
	4	TW-R50-B128	M6900504	2.835 (72)	1.417 (36)	5.669 (144)	4.803 (122)	6.024 (153)	24.094 (612)
	2	TW-R20-K2	M6900505	1.260 (32)	.630 (16)	2.520 (64)	2.913 (74)	3.701 (94)	14.803 (376)
	3	TW-R30-K2	M6900506	1.575 (40)	.787 (20)	3.189 (81)	3.307 (84)	4.213 (107)	16.850 (428)
	4	TW-R50-K2	M6900507	2.520 (64)	1.181 (30)	5.079 (129)	4.370 (111)	5.433 (138)	21.732 (552)
	5	TW-R50-90-HT-B128	M1542326	2.835 (72)	1.417 (36)	5.669 (144)	4.803 (122)	6.024 (153)	24.094 (612)
	5	TW-R50-90-HT-K2	M1542329	2.520 (64)	1.181 (30)	5.079 (129)	4.370 (111)	5.394 (137)	21.732 (552)

¹ Smaller intervals are possible by alternating switching the read/write heads on and off with software.
 10 mm air gap required when mounting to ferrous metal. See accessories on page 26 for spacers.
 Ambient temperature: -25 to +85°C (-13 to +185°F); (-40 to +210°C (-40 to +410°F) for TW-R*-HT....).