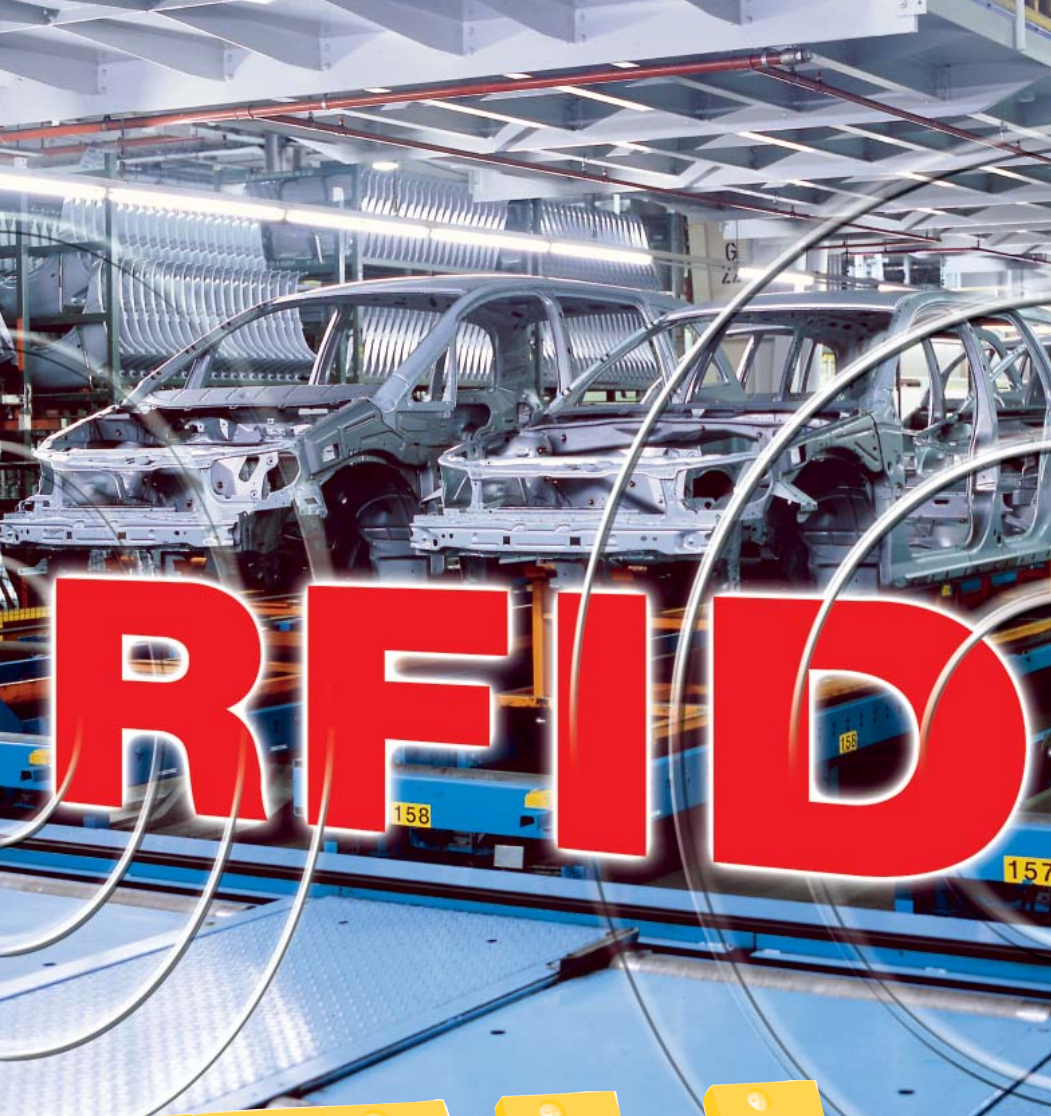


TURCK

Industrial
Automation

**MODULAR
RFID SYSTEM
HF**

***BL
ident***®



Sense it! Connect it! Bus it! Solve it!

BL ident® – modular RFID system

Make use of the advantages!



BL ident® is an all-in-one RFID system, designed for industrial applications, thus unfolding its strengths primarily there.

It is based on the modular I/O systems BL67 (field application), BL20 (cabinet mounting), the compact fieldbus modules *BL compact* (field application) and consists of data carriers (tags), read/write heads, connection technology and interface sets (gateway and RFID electronic modules).

The data carriers are also suited for industrial applications.

BL ident® – make use of the advantages - HF and UHF – One solution!

Whether applied in production control systems, in logistics or automation processes, interference immune HF and long range UHF are now combined in one solution.

BL ident® by TURCK makes it possible.

Longer operating distances are achieved, even in harsh industrial environments and with data exchange on-the-fly.

Furthermore, the product channelfolio comprises extremely quick and almost infinitely re-writeable FRAM data carriers as well as a high temperature resistant versions (up to 210 °C) for application in coating lines. Moreover, BL ident® can be integrated in existing system configurations without any problems.

Make use of the new advantages for industrial applications with RFID solutions made by TURCK.



BL ident® – significant potentials for cost-saving:

- Easy integration in the existing control world
- Efficient production and increased system availability

The short period of amortisation and a quick ROI (Return on Investment) of the system are a considerable contribution to the success of your company.



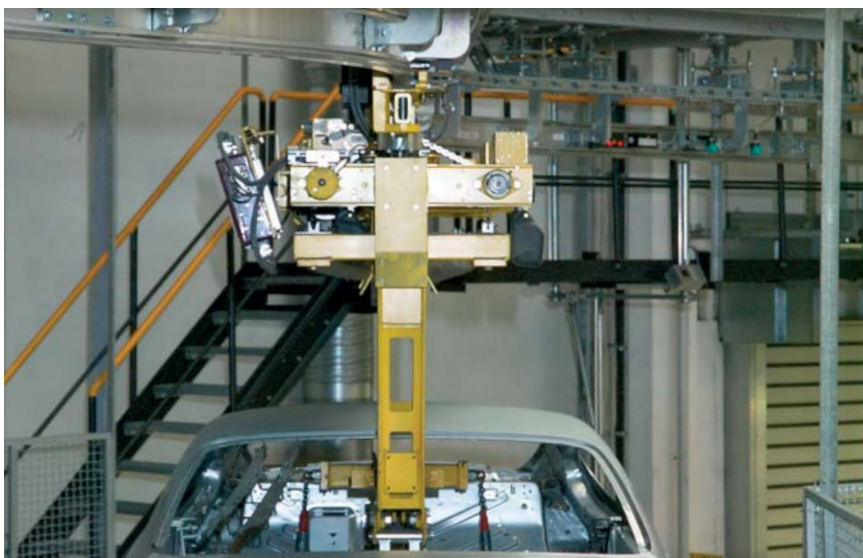
BL ident® works efficiently – clock rate and speed of production are increased:

- Fast FRAM technology (0.5 ms/Byte)
- Parallel processing of data with up to 16 channels per interface
- Read and write on-the-fly



BL ident® – maximum freedom and highest flexibility for system integration. Quick implementation of your projects:

- Read/write heads are available in industrial conform housings (M18, M30, CK40, Q14, Q80, Q80L400, S32XL, Q350), protection class IP67/IP69K and read/write distances of up to 500 mm – suited for very fast applications and roller conveyors!
- Robust tags in IP69K – also available in miniature designs of Ø 7.5 x 1 mm
- Corresponding data carriers can be mounted directly on metal without additional mounting aids
- Modular mounted interfaces – additional I/O modules can be integrated (BL20, BL67)



Source: Volkswagen Sachsen GmbH

- BL compact – compact fieldbus connections in IP67 combine RFID with integrated I/Os.
- Up to 50 m connection cable between read/write head and interface
- Comprehensive mounting set
- Multiple fieldbus standards such as PROFIBUS-DP, EtherNet/IP™, Modbus TCP, DeviceNet™, PROFINET IO and CANopen, protection class IP20 and IP67
- No matter which control system you use: *BL ident*® electronic modules (BL20-2RFID-S, BL67-2RFID-S resp. sets with the letter S in the type code) are easy to integrate in existing systems. As no function module is needed, the control unit and the periphery are thus relieved.
- Programmable gateways with peripheral pre-processing function also relieve the higher-level control and bus system.



***BL ident*® – extended service intervals and increased system availability:**

- Increased safety level due to long data storage period (10 years if operated at prescribed temperature)
- Nearly infinitely re-writing of the FRAM data carriers (10¹⁰), EEPROM: 10⁵
- Extremely resistant
- The materials used for the read/write heads of the WD-series are resistant to all acid and alkaline detergents and disinfectants. Any damages caused by the aggressive cleaning agents are thus prevented.
- The data carriers TW-SPP18x1-B128 and TW-R4-22-B128 meet the requirements of autoclaves (approx. 121 °C hot steam under pressure).



***BL ident*® - easy maintenance ensures more safety and reduction of costs:**

- No system down-times through simple plugging/pulling of the electronic modules during operation
- Locally displayed fieldbus diagnostics directly in the field via LEDs on the read/write heads and on the interface
- The interface is easily connected to other fieldbus nodes by replacing the gateway – the remaining configuration is left unchanged
- Same mounting accessories as for inductive sensors – less mounting accessories are needed



For more information on RFID please see D101759 and D101803!

BL ident® modular RFID system

Key benefits for your economic success!

BL ident® – flexibility for your application, security of investment!

The RFID system *BL ident*® is easy to integrate, from the data carrier, over read/write heads, up to simple and quick connection of the system to the control level. You will be able to configure your system comfortably to your needs.

BL ident® is a future-proof technology and interoperable due to internationally valid standards. Profit from these benefits and gain highest investment security!

BL ident® – data carriers

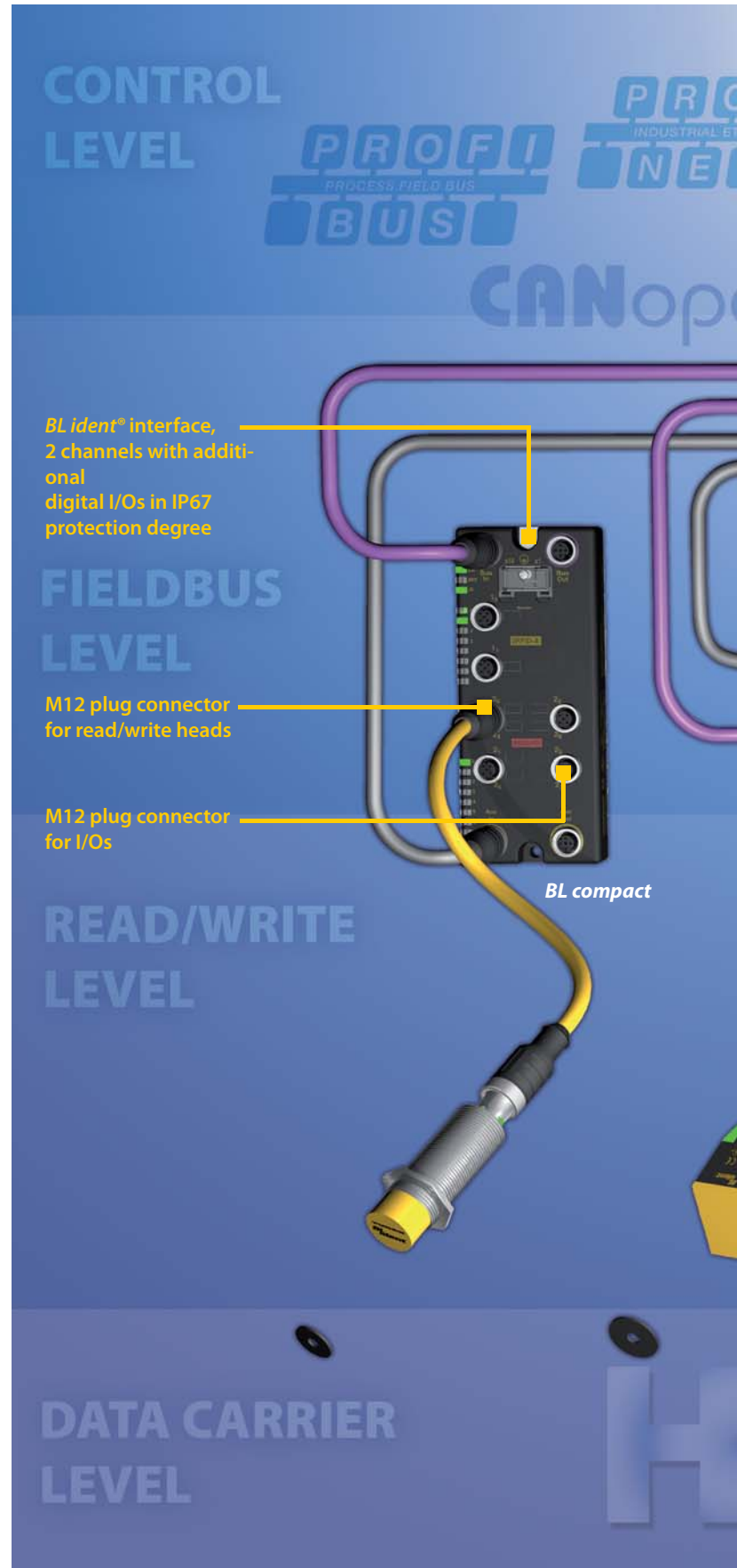
- Especially small versions 7.5 mm
- EEPROM data carrier for large quantities
- FRAM data carrier for high-speed transmission and many write cycles
- High temperature data carriers for overall process control, -40...+210 °C
- Data carriers for autoclaves, water-vapor tight up to +121 °C
- Direct mounting on metal
- Customer specific solutions based on open and internationally valid standards (ISO 15693 and ISO 18000-6C)
- Data carriers for the Ex area

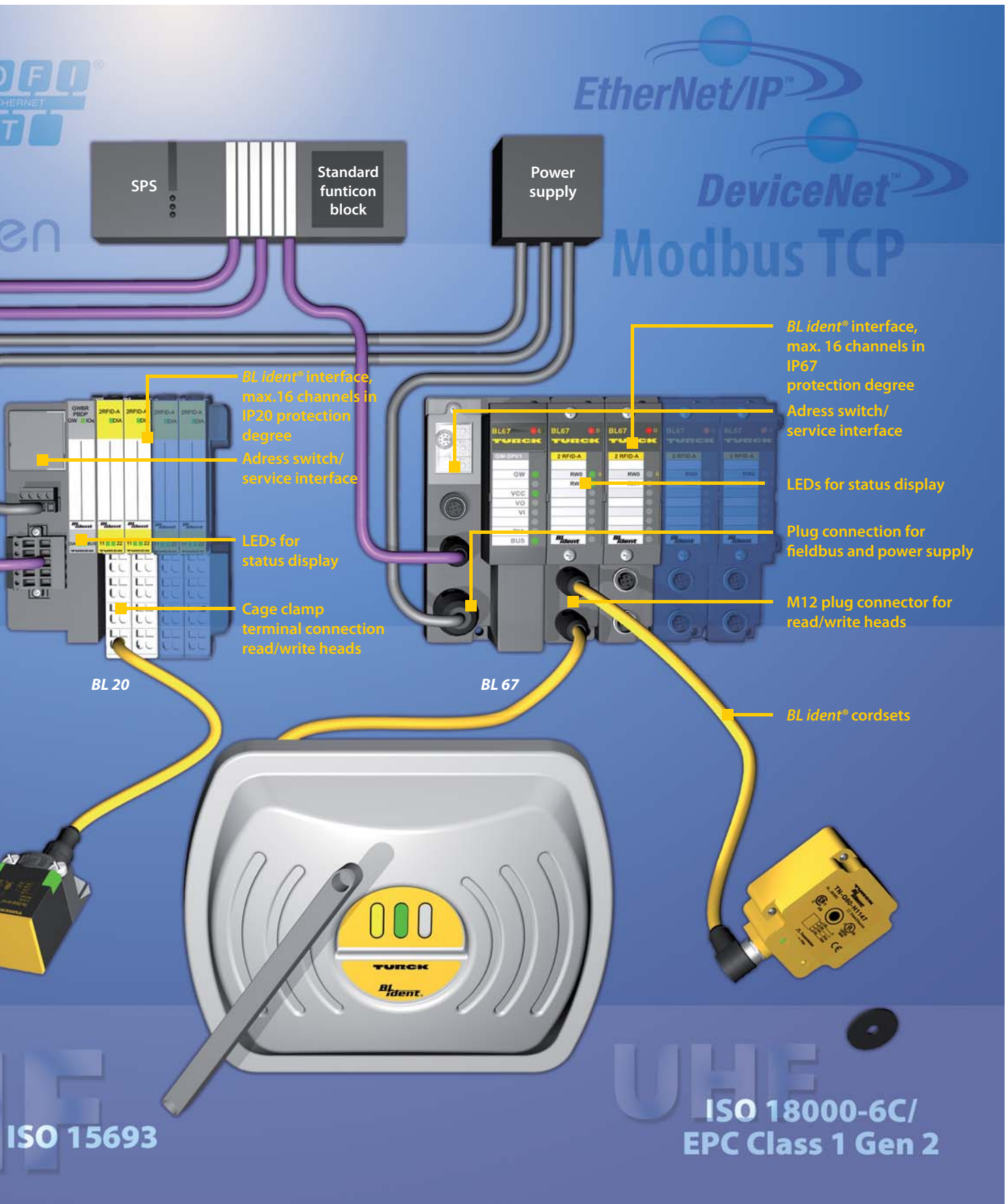
BL ident® – read/write heads

- Robust industrial design
- Fully encapsulated read/write heads
- Read/write distances up to 500 mm
- Suited for food industry applications, Wash-Down (IP69K)
- Read/write heads for the Ex area

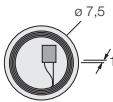
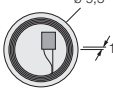
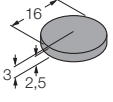
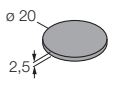
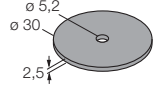
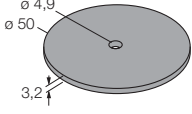
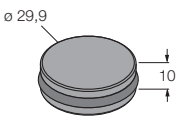
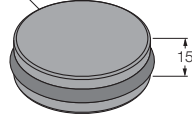
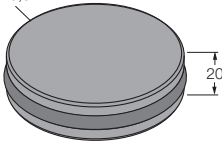
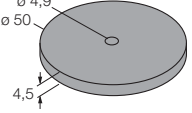
BL ident® – interfaces

- Modular concept (BL20 and BL67) with up to 16 channels per gateway
- BL20 for cabinet mounting
- BL67 for direct mounting in the field
- Cable length to the read/write head up to 50 m
- Versatile and simple fieldbus connection (PROFIBUS-DP, DeviceNet™, CANopen, PROFINET IO, Ethernet Modbus TCP, EtherNet/IP™)
- Programmable gateways for peripheral and independent control tasks
- Additional integration of I/O modules on the same gateway resp. bus node
- Modules for space-saving integration in the field (*BL compact*)
- Interfaces for the Ex area





BL ident[®] – data carriers

Dimensions/ housing lengths	Memory size	Memory organiz.	Operating temperature	Features	Type
	128 byte	EEPROM	-25...+70 °C	small housing	TW-R7.5-B128
	128 byte	EEPROM	-25...+70 °C	small housing	TW-R9.5-B128
	64 byte	EEPROM	-25...+85 °C	extended storage temperature range	TW-R16-B64
	128 byte	EEPROM	-25...+85 °C	extended storage temperature range ATEX ⁴	TW-R16-B128 TW-R16-B128-Ex
	128 byte	EEPROM	-25...+85 °C	standard ATEX ⁴	TW-R20-B128 TW-R20-B128-Ex
	2 kbyte	FRAM	-20...+85 °C	standard ATEX ⁴	TW-R20-K2 TW-R20-K2-Ex
	128 byte	EEPROM	-25...+85 °C	standard ATEX ⁴	TW-R30-B128 TW-R30-B128-Ex
	2 kbyte	FRAM	-20...+85 °C	standard ATEX ⁴	TW-R30-K2 TW-R30-K2-Ex
	128 byte	EEPROM	-25...+85 °C	standard ATEX ⁴	TW-R50-B128 TW-R50-B128-Ex
	2 kbyte	FRAM	-20...+85 °C	standard ATEX ⁴ ATEX ⁴	TW-R50-K2 TW-R50-K8 TW-R50-K2-Ex TW-R50-K8-Ex
	128 byte	EEPROM	-25...+85 °C	direct mounting on/in metal	TW-R30-M-B128 ¹
	2 kbyte	FRAM	-25...+85 °C	direct mounting on/in metal	TW-R30-M-K2 ¹
	128 byte	EEPROM	-25...+85 °C	direct mounting on/in metal	TW-R50-M-B128 ¹
	2 kbyte	FRAM	-25...+85 °C	direct mounting on/in metal	TW-R50-M-K2 ¹
	128 byte	EEPROM	-25...+85 °C	direct mounting on/in metal	TW-R80-M-B128 ¹
	2 kbyte	FRAM	-25...+85 °C	direct mounting on/in metal	TW-R80-M-K2 ¹
	2 kbyte	FRAM	-25...+85 °C	direct mounting on/in metal ATEX ⁴	TW-R50-MF-K2 ¹ TW-R50-MF-K2-Ex

¹ accessories possibly required

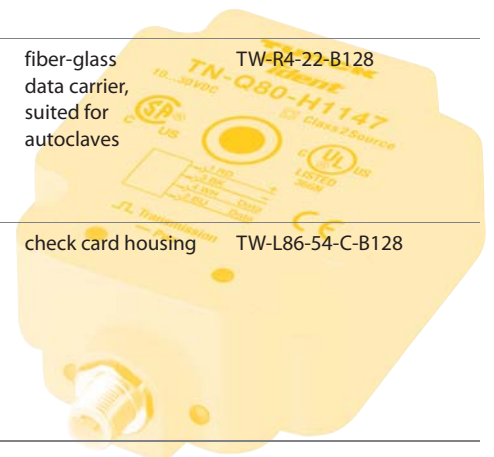
² for more information see data sheet

³ optional printing

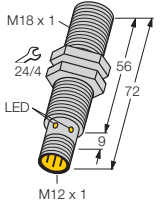
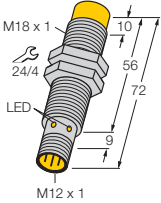
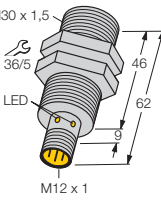
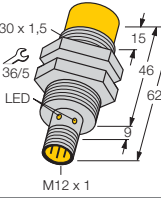
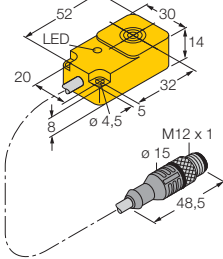
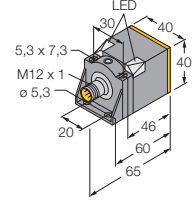
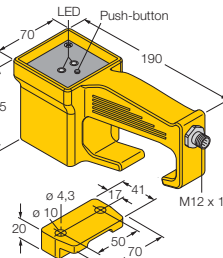
⁴ II 2 G Ex ia IIC T4/T6
II 2 D Ex ia D21 T110 °C



Dimensions/ housing lengths	Memory size	Memory organiz.	Operating temperature	Features	Type
	64 byte	EEPROM	-40...+210 °C 30 min.	high temperature range	TW-R22-HT-B64 ²
	128 byte	EEPROM	-40...+210 °C 30 min.	high temperature range	TW-R50-90-HT-B128 ²
	2 kbyte	FRAM	-40...+210 °C 30 min.	high temperature range	TW-R50-90-HT-K2 ²
	128 byte	EEPROM	-20...+85 °C	inlay	TW-I14-B128
	128 byte	EEPROM	-20...+70 °C	Smart-Label	TW-L80-50-P-B128
	128 byte	EEPROM	-20...+70 °C	Smart-Label	TW-L49-46-F-B128
	128 byte 2 kbyte 128 byte 2 kbyte 128 byte 2 kbyte	EEPROM FRAM EEPROM FRAM EEPROM FRAM	-20...+85 °C	screw housing	TW-BD10X1.5-19-B128 TW-BD10X1.5-19-K2 TW-BS10X1.5-19-B128 TW-BS10X1.5-19-K2 TW-BV10X1.5-19-B128 TW-BV10X1.5-19-K2
	128 byte	EEPROM	-25...+85 °C	suited for autoclaves	TW-SPP18x1-B128
	128 byte	EEPROM	-25...+85 °C	fiber-glass data carrier, suited for autoclaves	TW-R4-22-B128
	128 byte	EEPROM	-25...+85 °C	check card housing	TW-L86-54-C-B128



BL ident® – read/write heads

Dimensions/ housing lengths	Installation conditions	Features	Connection	Type
	flush	standard wash-down, (IP69K) ATEX II 3 G Ex nA II T4 Gc II 3 D Ex t III B T135°C Dc	only with <i>BL ident</i> ® cordset (see page 16)	TB-M18-H1147 TB-M18-H1147/S1126 TB-EM18WD-H1147 ¹ TB-EM18WD-H1147/S1126 ¹ TB-EM18WD-H1147-Ex TB-EM18WD-H1147/S1126-EX
	non-flush	standard wash-down, (IP69K) ATEX II 3 G Ex nA II T4 Gc II 3 D Ex t III B T135°C Dc	only with <i>BL ident</i> ® cordset (see page 16)	TN-M18-H1147 TN-M18-H1147/S1126 TN-EM18WD-H1147 ¹ TN-EM18WD-H1147/S1126 ¹ TN-EM18WD-H1147-Ex TN-EM18WD-H1147/S1126-EX
	flush	standard wash-down, (IP69K) ATEX II 3 G Ex nA II T4 Gc II 3 D Ex t III B T135°C Dc	only with <i>BL ident</i> ® cordset (see page 16)	TB-M30-H1147 TB-M30-H1147/S1126 TB-EM30WD-H1147 ¹ TB-EM30WD-H1147/S1126 ¹ TB-EM30WD-H1147-Ex TB-EM30WD-H1147/S1126-EX
	non-flush	standard wash-down, (IP69K) ATEX II 3 G Ex nA II T4 Gc II 3 D Ex t III B T135°C Dc	only with <i>BL ident</i> ® cordset (see page 16)	TN-M30-H1147 TN-M30-H1147/S1126 TN-EM30WD-H1147 ¹ TN-EM30WD-H1147/S1126 ¹ TN-EM30WD-H1147-Ex TN-EM30WD-H1147/S1126-EX
	non-flush	flat housing	only with <i>BL ident</i> ® cordset (see page 16)	TN-Q14-0.15-RS4.47T
	partially embeddable	standard	only with <i>BL ident</i> ® cordset (see page 16)	TN-CK40-H1147 TN-CK40-H1147/S1126
	non-flush	flexible operation	only with <i>BL ident</i> ® cordset (see page 16)	HT-Ident-H1147 read/write head HT-Ident-H1187 read/write head with pushbutton, LED and audible alert



¹ WD series (wash-down) is resistant to all common acid and alkaline detergents and disinfectants, thread material: V4A (1.4404/316L); front cap: LCP Vectra 140

Dimensions/ housing lengths	Installation conditions	Features	Connection	Type
	non-flush	standard large read/write distance ATEX II 3 G Ex nA II T4 II 3 D Ex tD A22 IP67 T135 °C	only with <i>BL ident</i> ® cordset (see page 16)	TN-Q80-H1147 TN-Q80-H1147/S1126 TNER-Q80-H1147 TNLR-Q80-H1147/S1126 TNLR-Q80-H1147 TN-Q80-H1147-Ex TNLR-Q80-H1147-Ex
	non-flush	standard	only with <i>BL ident</i> ® cordset (see page 16)	TN-S32XL-H1147
	non-flush	large read/write distance	only with <i>BL ident</i> ® cordset (see page 16)	TNLR-Q350-H1147 TNLR-Q350-H1147-S1126
	non-flush	suited for mounting in roller conveyors (lengths and crosswise alignment possible)	only with <i>BL ident</i> ® cordset (see page 16)	TNLR-Q80L400-H1147 TNLR-Q80L400-H1147-S1126
	non-flush	suited for mounting in roller conveyors (lengths and crosswise alignment possible)	only with <i>BL ident</i> ® cordset (see page 16)	TNLR-Q80L400-H1147L TNLR-Q80L400-H1147L-S1126
	non-flush	ATEX II 2 G Ex D II B ...	only with <i>BL ident</i> ® cordset (see page 16)	TNLR-Q80-R192H132-2M-Ex TNLR-Q80-R234H172-2M-Ex
	partially embedded	ATEX II 2 G Ex D II B ...	only with <i>BL ident</i> ® cordset (see page 16)	TN-CK40-R130H93-2M-Ex

BL ident® – combinations of read/write heads and data carriers

The table shows the combination possibilities of read/write heads and data carriers:

- E** = recommended read/write distance (x = not defined)
- M** = max. read/write distance
- L** = Length of the transmission zone with recommended distance

Data carrier

Data carrier	Read/write heads	Read/write heads																							
		TB-M18-H1147	TB-EM18WD-H1147	TB-EM18WD-H1147-Ex	TN-M18-H1147	TN-EM18WD-H1147	TN-EM18WD-H1147-Ex	TB-M30-H1147	TB-EM30WD-H1147	TB-EM30WD-H1147-Ex	TN-M30-H1147	TN-EM30WD-H1147	TN-EM30WD-H1147-Ex	TN-Q14-0.15-RS4.47T	TN-CK40-H1147	TN-Q80-H1147	TN-Q80-H1147-Ex	TNER-Q80-H1147	TNLR-Q80-H1147	TNLR-Q80-H1147-Ex	TN-S32XL-H1147	TNLR-Q80L400-H1147	TNLR-Q80L400-H1147L	TNLR-Q80L400-H1147L	
TW-R7.5-B128	E	8	8	8	8	8	8	10	10	10	13	10					20								
	M	14	14	16	16	18	18	30	30	30	30	34					41								
	L	16	16	20	20	20	20	28	28	28	42	62					60								
TW-R9.5-B128	E	9	9	9	9	9	9	11	11	11	14	11													
	M	15	15	18	18	20	20	33	33	33	33	37													
	L	18	18	22	22	22	22	31	31	31	46	68													
TW-R16-B64	E																45								
	M																80								
	L																92								
TW-R16-B128	E	10	10	12	12	12	12	20	20	20	28	20					50	20	30	30					
	M	17	17	23	23	23	23	38	38	38	50	52					85	67	105	105					
	L	14	14	26	26	20	20	44	44	44	54	60					90	125	410	410					
TW-R20-B128	E	8	8	10	10	15	15	22	22	22	30	35					50	36	40	40					
	M	15	15	22	22	27	27	40	40	40	50	65					88	72	110	110					
	L	12	12	26	26	20	20	34	34	34	50	72					92	103	404	404					
TW-R20-K2	E	5	5	12	12	15	15	17	17	17	22	25					40	20	30	30					
	M	12	12	20	20	22	22	31	31	31	40	52					75	60	80	80					
	L	16	16	24	24	20	20	32	32	32	36	70					84	130	390	390					
TW-R30-B128	E	8	8	10	10	13	13	22	22	22	30	35					60	30	60	60					
	M	17	17	25	25	30	30	43	43	43	53	72					115	80	158	158					
	L	22	22	34	34	32	32	56	56	56	62	80					116	120	434	434					
TW-R30-K2	E	6	6	16	16	15	15	23	23	23	30	35					60	30	50	50					
	M	14	14	31	31	27	27	42	42	42	55	67					98	82	125	125					
	L	18	18	32	32	32	32	50	50	50	56	80					104	132	416	416					
TW-R50-B128	E			20	20	20	20	40	40	40	45	65					80	80	100	100					
	M			41	41	43	43	72	72	72	85	118					165	150	268	268					
	L			70	70	46	46	76	76	76	96	120					168	160	484	484					
TW-R50-K2	E			12	12	15	15	30	30	30	38	50					90	60	90	90					
	M			30	30	33	33	58	58	58	81	100					144	128	230	230					
	L			60	60	36	36	76	76	76	82	110					150	160	466	466					
TW-R22-HT-B64	E																34								
	M																69								
	L																92								
TW-R50-90-HT-B128	E			x	x	x	x	10	10	10	15	35					50	50	70	70					
	M			11	11	13	13	42	42	42	55	88					135	120	238	238					
	L			70	70	46	46	76	76	76	96	120					168	160	484	484					
TW-R50-90-HT-K2	E							x	x	x	8	20					60	30	60	60					
	M							28	28	28	51	70					114	98	200	200					
	L							76	76	76	82	110					150	160	466	466					

Read/write distances up to 500 mm

Each read/write head is able to communicate with a number of data carriers from the TURCK product channelfolio. The ranges achieved may vary according to the combination of read/write heads and data carriers.

Read/write heads

- = also for:
 - Texas Instruments EEPROM
 - Infineon EEPROM

Data carrier

- = PHILIPS I-Code SLI (SL2)
- = Fujitsu FRAM
- = PHILIPS I-Code SL1

The read/write heads with the type code **S1126** are optimized for different data carriers.



TNLR-Q80L400-H1147 crosswise alignment	TNLR-Q80L400-H1147L crosswise alignment	TNLR-Q350-H1147	TNLR-Q80L400-H1147-S1126 lengthwise alignment	TNLR-Q80L400-H1147L-S1126 lengthwise alignment	TNLR-Q80L400-H1147-S1126 crosswise alignment	TNLR-Q80L400-H1147L-S1126 crosswise alignment	TNLR-Q350-H1147-S1126	TB-M18-H1147/S1126	TB-EM18WD-H1147/S1126	TB-EM18WD-H1147/S1126-Ex	TN-M18-H1147/S1126	TN-EM18WD-H1147/S1126	TN-EM18WD-H1147/S1126-Ex	TB-M30-H1147/S1126	TB-EM30WD-H1147/S1126	TB-EM30WD-H1147/S1126-Ex	TN-M30-H1147/S1126	TN-EM30WD-H1147/S1126	TN-EM30WD-H1147/S1126-Ex	TN-CK40-H1147/S1126	TN-Q80-H1147/S1126	TNLR-Q80-H1147/S1126	HT-Ident-H1147	HT-Ident-H1187
								8 14 16	8 14 16	8 16 20	8 16 20	8 18 20	8 18 20	10 30 28	10 30 28	13 30 42	10 34 62	20 41 60	13 30 42					
								9 15 18	9 15 18	9 18 22	9 18 22	9 20 22	9 20 22	11 33 31	11 33 31	14 33 46	11 37 68	22 45 66	14 33 46					
								10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90	28 50 54					
50 95 74	50 95 74	60 203 360	30 105 410	30 105 410	50 95 74	50 95 74	60 203 360	10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90	28 50 54					
60 102 86	60 102 86	100 215 350	40 110 404	40 110 404	60 102 86	60 102 86	100 215 350	8 15 12	8 15 12	10 22 26	10 22 26	15 27 20	15 27 20	22 40 34	22 40 34	30 50 50	35 65 72	50 88 92	30 50 50					
15 64 70	15 64 70	80 155 310																					22 40 36	
90 152 132	90 152 132	80 218 350	60 158 434	60 158 434	90 152 132	90 152 132	80 218 350	8 17 22	8 17 22	10 25 34	10 25 34	13 30 32	13 30 32	22 43 56	22 43 56	30 53 62	35 72 80	60 115 116	30 53 62					
70 122 100	70 122 100	100 250 380																					30 55 56	
150 256 230	150 256 230	200 462 530	100 268 484	100 268 484	150 256 230	150 256 230	200 462 530			20 41 70	20 41 70	20 43 46	20 43 46	40 72 76	40 72 76	45 85 96	65 118 120	80 165 168	45 85 96					
120 216 190	120 216 190	200 405 480																					38 81 82	
										1 12 26	1 12 26	1 12 20	1 12 20	9 27 44	9 27 44	17 39 54	9 41 60	39 74 90						
120 226 230	120 226 230	170 432 530	70 238 484	70 238 484	120 226 230	120 226 230	170 432 530					x 13 46	x 13 46	10 42 76	10 42 76	15 55 96	35 88 120	50 135 168	15 55 96					
90 186 190	90 186 190	170 375 480																					8 51 82	

Note:

The maximum read/write distance (M) and the length of the transmission zone (L) only represent standard values determined under laboratory test conditions.

Deviation of read/write distances up to 30 % are possible due to component tolerances, mounting and ambient conditions and materials used (especially metal).

Therefore a test under real application conditions is recommended, especially with regard to read/write on-the-fly!

Moreover the recommended distance between data carrier and read/write head should be observed, in order to obtain correct read/write processes.



BL ident® – combinations read/write heads and data carriers

The table shows the combination possibilities of read/write heads and data carriers:

- E** = recommended read/write distance (x = not defined)
- M** = max. read/write distance
- L** = Length of the transmission zone with recommended distance

Data carrier

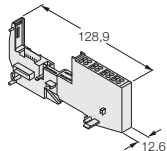
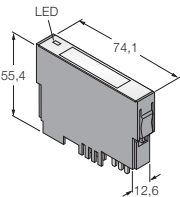
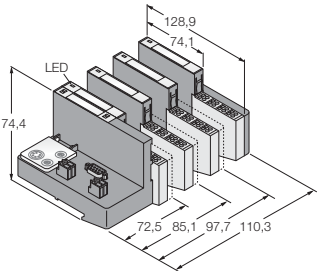
Data carrier		Read/write heads																								
		TB-M18-H1147	TB-EM18WD-H1147	TB-EM18WD-H1147-Ex	TN-M18-H1147	TN-EM18WD-H1147	TN-EM18WD-H1147-Ex	TB-M30-H1147	TB-EM30WD-H1147	TB-EM30WD-H1147-Ex	TN-M30-H1147	TN-EM30WD-H1147	TN-EM30WD-H1147-Ex	TN-Q14-0.15-RS4.47T	TN-CK40-H1147	TN-Q80-H1147	TN-Q80-H1147-Ex	TNER-Q80-H1147	TNER-Q80-H1147-Ex	TNLR-Q80-H1147	TN-S32XL-H1147	TNLR-Q80L400-H1147	TNLR-Q80L400-H1147 lengthwise alignment	TNLR-Q80L400-H1147L	TNLR-Q80L400-H1147L lengthwise alignment	
TW-R50-MF-K2 ¹	E M L			7 10 28	7 10 28			10 23 38	10 23 38	10 23 38	10 23 38	10 23 38	10 23 38	10 23 38	20 33 50	20 35 48			30 57 70							
TW-I14-B128	E M L	10 17 14	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	20 38 44	20 38 44	20 38 44	20 38 44	28 50 54	20 52 60			50 85 90	20 67 125	30 105 410	30 105 410					
TW-L49-46-F-B128	E M L	15 30 34	15 30 34	25 45 44	25 45 44	25 42 44	25 42 44	30 64 68	30 64 68	30 64 68	30 64 68	30 64 68	30 64 68	50 90 94	60 115 116			90 155 160	80 140 174	80 222 464	80 222 464					
TW-L80-50-P-B128	E M L	15 23 64	15 23 64	20 40 72	20 40 72	20 43 76	20 43 76	30 65 84	30 65 84	30 65 84	30 65 84	30 65 84	30 65 84	50 96 110	65 128 136			90 168 170	80 160 190	100 270 488	100 270 488					
TW-BS10X1.5-19-B128	E M L	4 10 13	4 10 13	6 11 16	6 11 16	7 14 18	7 14 18	6 19 22	6 19 22	6 19 22	6 19 22	6 19 22	6 19 22	10 23 30												
TW-BS10X1.5-19-K2	E M L					4 12 17	4 12 17	5 15 21	5 15 21	5 15 21	5 15 21	5 15 21	5 15 21	6 18 34												
TW-BD10X1.5-19-B128	E M L	9 19 20	9 19 20	10 21 20	10 21 20	15 24 24	15 24 24	20 36 38	20 36 38	20 36 38	20 36 38	20 36 38	20 36 38	25 47 52												
TW-BD10X1.5-19-K2	E M L	6 14 16	6 14 16	8 17 22	8 17 22	10 20 22	10 20 22	14 29 30	14 29 30	14 29 30	14 29 30	14 29 30	14 29 30	20 39 44												
TW-BV10X1.5-19-B128	E M L	4 10 13	4 10 13	6 12 18	6 12 18	6 13 18	6 13 18	8 16 26	8 16 26	8 16 26	8 16 26	8 16 26	8 16 26	10 22 33												
TW-BV10X1.5-19-K2	E M L					4 12 17	4 12 17	5 15 21	5 15 21	5 15 21	5 15 21	5 15 21	5 15 21	6 18 34												
TW-SPP18x1-B128	E M L	5 11 14	5 11 14	5 16 22	5 16 22	10 17 26	10 17 26	10 24 34	10 24 34	10 24 34	10 24 34	10 24 34	10 24 34	15 34 46	15 39 60			30 66 80								
TW-R30-M-B128 ²	E M L	8 12 16	8 12 16	6 14 16	6 14 16																					
TW-R50-M-B128 ²	E M L	8 18 22	8 18 22	10 22 22	10 22 22	15 27 22	15 27 22	20 36 34	20 36 34	20 36 34	20 36 34	20 36 34	20 36 34	23 46 48	25 53 66			35 58 64								
TW-R80-M-B128 ²	E M L													25 53 68	40 76 76			50 90 90		30 77 398	30 77 398					
TW-R30-M-K2 ²	E M L	7 10 18	7 10 18	6 13 10	6 13 10																					
TW-R50-M-K2 ²	E M L	7 15 24	7 15 24	10 22 32	10 22 32	10 21 26	10 21 26	15 30 32	15 30 32	15 30 32	15 30 32	15 30 32	15 37 46	15 41 58			30 58 76									
TW-R80-M-K2 ²	E M L													15 47 54	20 55 64			35 78 80								
TW-R4-22-B128	E M L	3 9 12	3 9 12	5 13 20	5 13 20	5 16 22	5 16 22	10 28 38	10 28 38	10 28 38	10 28 38	10 28 38	10 28 38	20 40 50	20 48 68			40 73 86	10 42 118	20 80 368	20 80 368					
TW-L86-54-C-B128	E M L	10 21 70	10 21 70	15 39 74	15 39 74	20 45 80	20 45 80	30 77 92	30 77 92	20 65 98	20 65 98	20 65 98	20 65 98	60 115 132	70 146 158			120 215 214	90 180 206	120 360 484	120 360 484					

¹ Measured values: Data carrier on metal (St37) with plastic screws

² Measured values: Data carrier flush-mounted in metal (St37)

TNLR-Q80L400-H1147 crosswise alignment	TNLR-Q80L400-H1147L crosswise alignment	TNLR-Q350-H1147	TNLR-Q80L400-H1147-S1126 lengthwise alignment	TNLR-Q80L400-H1147L-S1126 lengthwise alignment	TNLR-Q80L400-H1147-S1126 crosswise alignment	TNLR-Q80L400-H1147L-S1126 crosswise alignment	TNLR-Q350-H1147-S1126	TB-M18-H1147/S1126	TB-EM18WD-H1147/S1126 TB-EM18WD-H1147/S1126-Ex	TN-M18-H1147/S1126	TN-EM18WD-H1147/S1126 TN-EM18WD-H1147/S1126-Ex	TB-M30-H1147/S1126	TB-EM30WD-H1147/S1126 TB-EM30WD-H1147/S1126-Ex	TN-M30-H1147/S1126	TN-EM30WD-H1147/S1126 TN-EM30WD-H1147/S1126-Ex	TN-CK40-H1147/S1126	TN-Q80-H1147/S1126	TNLR-Q80-H1147/S1126	HT-Ident-H1147 HT-Ident-H1187	
																			10 33 50	
	50 95 74	50 203 74	60 105 410	30 105 410	30 105 410	50 95 74	50 95 74	60 203 360	10 17 14	12 23 26	12 23 26	12 23 20	12 23 20	20 38 44	20 38 44	28 50 54	20 52 60	50 85 90	28 50 54	
	88 207 176	88 207 176	200 416 458	80 222 464	80 222 464	88 207 176	88 207 176	200 416 458	15 30 34	15 30 44	25 45 44	25 45 44	25 42 44	25 42 44	30 64 68	30 64 94	50 90 116	60 115 160	90 155 160	50 90 94
	160 270 240	160 270 240	240 500 518	100 270 488	100 270 488	160 270 240	160 270 240	240 500 518	15 23 64	15 23 64	20 40 72	20 40 72	20 43 76	20 43 76	30 65 84	30 65 110	50 96 110	65 128 136	90 168 170	50 96 110
																			10 23 30	
																			6 18 34	
																			25 47 52	
																			20 39 44	
																			10 22 33	
																			6 18 34	
								5 11 14	5 11 14	5 16 22	5 16 22	10 17 26	10 17 26	10 24 34	10 24 34	15 34 46	15 39 60	30 66 80	15 34 46	
								8 12 16	8 12 16	6 14 16	6 14 16									
								8 18 22	8 18 22	10 22 22	10 22 22	15 27 22	15 27 22	20 36 34	20 36 34	23 46 48	25 53 66	35 58 64	23 46 48	
	40 77 56	40 77 56		30 77 398	30 77 398	40 77 56	40 77 56									25 53 68	40 76 76	50 90 90	25 53 68	
																			15 37 46	
																			15 47 54	
	40 78 68	40 78 68	50 197 328	20 80 368	20 80 368	40 78 68	40 78 68	50 197 328	3 9 12	3 9 12	5 13 20	5 13 20	5 16 22	5 16 22	10 28 38	10 28 38	20 40 50	20 48 68	40 73 86	20 40 50
	200 345 306	200 345 306	360 662 660	120 360 484	120 360 484	200 345 306	200 345 306	360 662 660	10 21 70	10 21 70	15 39 74	15 39 74	20 45 80	20 45 80	30 77 92	30 77 92	60 115 132	70 146 158	120 215 214	60 115 132

BL ident® – extensions and interface sets in IP20

Dimensions/ housing lenghts	Protection class	Modules/Interface sets	Number of channels	Type
	IP20	BL20 base modul	2	BL20-S4T-SBBS
	IP20	RFID electronic module for use with function module or programmable gateway for PROFIBUS-DPV1, DeviceNet™, PROFINET IO, Ethernet Modbus TCP, EtherNet/IP™	2	BL20-2RFID-A
	IP20	Interface sets PROFIBUS-DPV1	2	TI-BL20-DPV1-2
	IP20	PROFIBUS-DPV1	4	TI-BL20-DPV1-4
	IP20	PROFIBUS-DPV1	6	TI-BL20-DPV1-6
	IP20	PROFIBUS-DPV1	8	TI-BL20-DPV1-8
	IP20	PROFINET IO	2	TI-BL20-EN-PN-2
	IP20	PROFINET IO	4	TI-BL20-EN-PN-4
	IP20	PROFINET IO	6	TI-BL20-EN-PN-6
	IP20	PROFINET IO	8	TI-BL20-EN-PN-8
	IP20	Interface sets – ECONOMY PROFIBUS-DPV1	2	TI-BL20-E-DPV1-2
	IP20	PROFIBUS-DPV1	4	TI-BL20-E-DPV1-4
	IP20	PROFIBUS-DPV1	6	TI-BL20-E-DPV1-6
	IP20	PROFIBUS-DPV1	8	TI-BL20-E-DPV1-8
	IP20	Interface sets – programmable Ethernet Modbus TCP	2	TI-BL20-PG-EN-2
	IP20	Ethernet Modbus TCP	4	TI-BL20-PG-EN-4
IP20	Ethernet Modbus TCP	6	TI-BL20-PG-EN-6	
IP20	Ethernet Modbus TCP	8	TI-BL20-PG-EN-8	
IP20	EtherNet/IP™	2	TI-BL20-PG-EIP-2	
IP20	EtherNet/IP™	4	TI-BL20-PG-EIP-4	
IP20	EtherNet/IP™	6	TI-BL20-PG-EIP-6	
IP20	EtherNet/IP™	8	TI-BL20-PG-EIP-8	

Note

No matter which control system you use, BL ident® electronic modules are easy to integrate in existing systems (BL20-2RFID-S, BL67-2RFID-S resp. sets with the letter S in the type code). The control unit as well as the periphery are relieved because you don't need function modules any more.

Interface sets and single components for fieldbus connection

We offer interfaces as complete sets. You can extend an existing set with additional channels any time you like. You need one electronic module and one base module for two channels. You can connect maximally 8 channels to the interfaces and 16 channels to interfaces with simple I/O communication.

Ordering example:

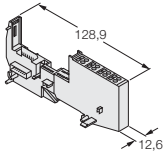
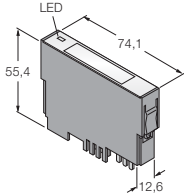
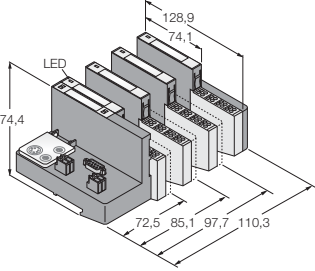


You need two more channels for the connection to DeviceNet™? In this case you have to order one BL20-2RFID-A electronic module and one BL20-S4T-SBBS base module. You need one BL20-2RFID-S electronic module and one BL20-S4T-SBBS base module for simple I/O communication.

Function modules for interfaces and programmable interfaces are available on the BL ident® CD, ident no.1545052. The CD is included in the set.

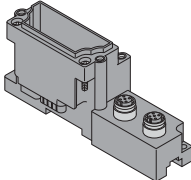
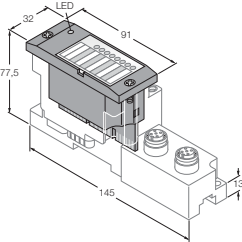
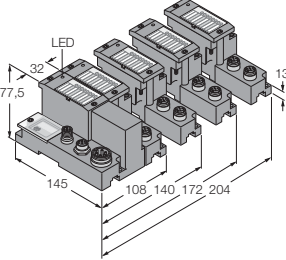
BL ident® – extensions and interface sets in IP20 for simple I/O communication

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Dimensions/ housing lengths	Protection class	Modules/Interface sets	Number of channels	Type
	IP20	BL20 base module	2	BL20-S4T-SBBS
	IP20	RFID electronic module for simple I/O communication	2	BL20-2RFID-S
	Interface sets for simple I/O communication			
	IP20	PROFIBUS-DPV1	2	TI-BL20-DPV1-S-2
	IP20	PROFIBUS-DPV1	4	TI-BL20-DPV1-S-4
	IP20	PROFIBUS-DPV1	6	TI-BL20-DPV1-S-6
	IP20	PROFIBUS-DPV1	8	TI-BL20-DPV1-S-8
	IP20	DeviceNet™	2	TI-BL20-DN-S-2
	IP20	DeviceNet™	4	TI-BL20-DN-S-4
	IP20	DeviceNet™	6	TI-BL20-DN-S-6
	IP20	DeviceNet™	8	TI-BL20-DN-S-8
	P20	EtherNet/IP™	2	TI-BL20-EIP-S-2
	IP20	EtherNet/IP™	4	TI-BL20-EIP-S-4
	IP20	EtherNet/IP™	6	TI-BL20-EIP-S-6
	IP20	EtherNet/IP™	8	TI-BL20-EIP-S-8
	IP20	Ethernet Modbus TCP	2	TI-BL20-EN-S-2
	IP20	Ethernet Modbus TCP	4	TI-BL20-EN-S-4
	IP20	Ethernet Modbus TCP	6	TI-BL20-EN-S-6
	IP20	Ethernet Modbus TCP	8	TI-BL20-EN-S-8
	IP20	PROFINET IO	2	TI-BL20-EN-PN-S-2
	IP20	PROFINET IO	4	TI-BL20-EN-PN-S-4
	IP20	PROFINET IO	6	TI-BL20-EN-PN-S-6
IP20	PROFINET IO	8	TI-BL20-EN-PN-S-8	
	Interface sets for simple I/O communication – ECONOMY			
	IP20	PROFIBUS-DPV1	2	TI-BL20-E-DPV1-S-2
	IP20	PROFIBUS-DPV1	4	TI-BL20-E-DPV1-S-4
	IP20	PROFIBUS-DPV1	6	TI-BL20-E-DPV1-S-6
	IP20	PROFIBUS-DPV1	8	TI-BL20-E-DPV1-S-8
	IP20	DeviceNet™	2	TI-BL20-E-DN-S-2
	IP20	DeviceNet™	4	TI-BL20-E-DN-S-4
	IP20	DeviceNet™	6	TI-BL20-E-DN-S-6
	IP20	DeviceNet™	8	TI-BL20-E-DN-S-8
	IP20	CANopen	2	TI-BL20-E-CO-S-2
	IP20	CANopen	4	TI-BL20-E-CO-S-4
	IP20	CANopen	6	TI-BL20-E-CO-S-6
IP20	CANopen	8	TI-BL20-E-CO-S-8	
	Interface sets for simple communication – programmable			
	IP20	Ethernet Modbus TCP	2	TI-BL20-PG-EN-S-2
	IP20	Ethernet Modbus TCP	4	TI-BL20-PG-EN-S-4
	IP20	Ethernet Modbus TCP	6	TI-BL20-PG-EN-S-6
	IP20	Ethernet Modbus TCP	8	TI-BL20-PG-EN-S-8
	IP20	EtherNet/IP™	2	TI-BL20-PG-EIP-S-2
	IP20	EtherNet/IP™	4	TI-BL20-PG-EIP-S-4
	IP20	EtherNet/IP™	6	TI-BL20-PG-EIP-S-6
IP20	EtherNet/IP™	8	TI-BL20-PG-EIP-S-8	

BL ident® – extensions and interface sets in IP67

Dimensions/ housing lengths	Protection class	Modules/Interface sets	Number of channels	Type
	IP67	BL67 base module	2	BL67-B-2M12
	IP67	RFID electronic module for use with function module or programmable gateway for PROFIBUS-DPV1, DeviceNet™, PROFINET IO, Ethernet Modbus TCP, EtherNet/IP™	2	BL67-2RFID-A
	IP67	Interface sets PROFIBUS-DPV1	2	TI-BL67-DPV1-2
	IP67	PROFIBUS-DPV1	4	TI-BL67-DPV1-4
	IP67	PROFIBUS-DPV1	6	TI-BL67-DPV1-6
	IP67	PROFIBUS-DPV1	8	TI-BL67-DPV1-8
	IP67	PROFINET IO	2	TI-BL67-EN-PN-2
	IP67	PROFINET IO	4	TI-BL67-EN-PN-4
	IP67	PROFINET IO	6	TI-BL67-EN-PN-6
	IP67	PROFINET IO	8	TI-BL67-EN-PN-8
	IP67	Interface sets – programmable PROFIBUS-DP	2	TI-BL67-PG-DP-2
	IP67	PROFIBUS-DP	4	TI-BL67-PG-DP-4
	IP67	PROFIBUS-DP	6	TI-BL67-PG-DP-6
	IP67	PROFIBUS-DP	8	TI-BL67-PG-DP-8
	IP67	Ethernet Modbus TCP	2	TI-BL67-PG-EN-2
	IP67	Ethernet Modbus TCP	4	TI-BL67-PG-EN-4
	IP67	Ethernet Modbus TCP	6	TI-BL67-PG-EN-6
	IP67	Ethernet Modbus TCP	8	TI-BL67-PG-EN-8
IP67	EtherNet/IP™	2	TI-BL67-PG-EIP-2	
IP67	EtherNet/IP™	4	TI-BL67-PG-EIP-4	
IP67	EtherNet/IP™	6	TI-BL67-PG-EIP-6	
IP67	EtherNet/IP™	8	TI-BL67-PG-EIP-8	

Interface sets and single components for fieldbus connection

We offer interfaces as complete sets. You can extend an existing set with additional channels any time you like. You need one electronic module and one base module for two channels. You can connect maximally 8 channels to the interfaces and

16 channels to interfaces with simple I/O communication.

Ordering example:

You need two more channels for the connection to DeviceNet™? In this case you have to order one electronic module BL67-2RFID-A and one BL67-B-2M12 base module. You need one BL67-2RFID-S electronic module and one BL67-B-2M12

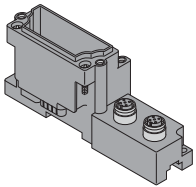
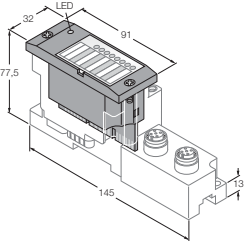
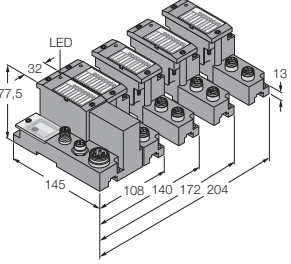
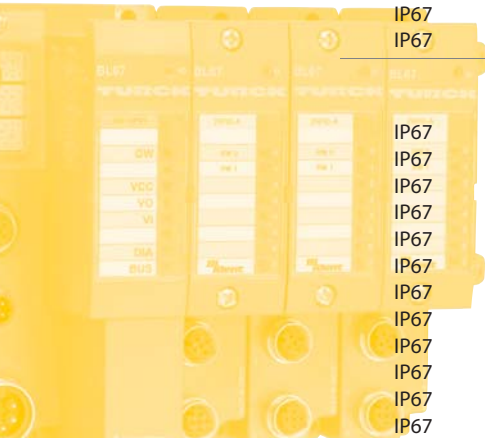
base module for simple I/O communication.

Function modules for interfaces and programmable interfaces are available on the BL ident® CD, ident no.1545052. The CD is included in the set.

BL ident® – extensions and interface sets in IP67 for simple I/O communication

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Dimensions/ housing lengths	Protection class	Modules/Interface sets	Number of channels	Type
	IP67	BL67 base module	2	BL67-B-2M12
	IP67	RFID electronic module for simple I/O communication	2	BL67-2RFID-S
	Interface sets for simple I/O communication			
	IP67	PROFIBUS-DPV1	2	TI-BL67-DPV1-S-2
	IP67	PROFIBUS-DPV1	4	TI-BL67-DPV1-S-4
	IP67	PROFIBUS-DPV1	6	TI-BL67-DPV1-S-6
	IP67	PROFIBUS-DPV1	8	TI-BL67-DPV1-S-8
	IP67	DeviceNet™	2	TI-BL67-DN-S-2
	IP67	DeviceNet™	4	TI-BL67-DN-S-4
	IP67	DeviceNet™	6	TI-BL67-DN-S-6
	IP67	DeviceNet™	8	TI-BL67-DN-S-8
	IP67	EtherNet/IP™	2	TI-BL67-EIP-S-2
	IP67	EtherNet/IP™	4	TI-BL67-EIP-S-4
	IP67	EtherNet/IP™	6	TI-BL67-EIP-S-6
	IP67	EtherNet/IP™	8	TI-BL67-EIP-S-8
	IP67	Ethernet Modbus TCP	2	TI-BL67-EN-S-2
	IP67	Ethernet Modbus TCP	4	TI-BL67-EN-S-4
	IP67	Ethernet Modbus TCP	6	TI-BL67-EN-S-6
	IP67	Ethernet Modbus TCP	8	TI-BL67-EN-S-8
	IP67	PROFINET IO	2	TI-BL67-EN-PN-S-2
IP67	PROFINET IO	4	TI-BL67-EN-PN-S-4	
IP67	PROFINET IO	6	TI-BL67-EN-PN-S-6	
IP67	PROFINET IO	8	TI-BL67-EN-PN-S-8	
	Interface sets for simple I/O communication –programmable			
	IP67	PROFIBUS-DP	2	TI-BL67-PG-DP-S-2
	IP67	PROFIBUS-DP	4	TI-BL67-PG-DP-S-4
	IP67	PROFIBUS-DP	6	TI-BL67-PG-DP-S-6
	IP67	PROFIBUS-DP	8	TI-BL67-PG-DP-S-8
	IP67	Ethernet Modbus TCP	2	TI-BL67-PG-EN-S-2
	IP67	Ethernet Modbus TCP	4	TI-BL67-PG-EN-S-4
	IP67	Ethernet Modbus TCP	6	TI-BL67-PG-EN-S-6
	IP67	Ethernet Modbus TCP	8	TI-BL67-PG-EN-S-8
	IP67	EtherNet/IP™	2	TI-BL67-PG-EIP-S-2
	IP67	EtherNet/IP™	4	TI-BL67-PG-EIP-S-4
	IP67	EtherNet/IP™	6	TI-BL67-PG-EIP-S-6
IP67	EtherNet/IP™	8	TI-BL67-PG-EIP-S-8	

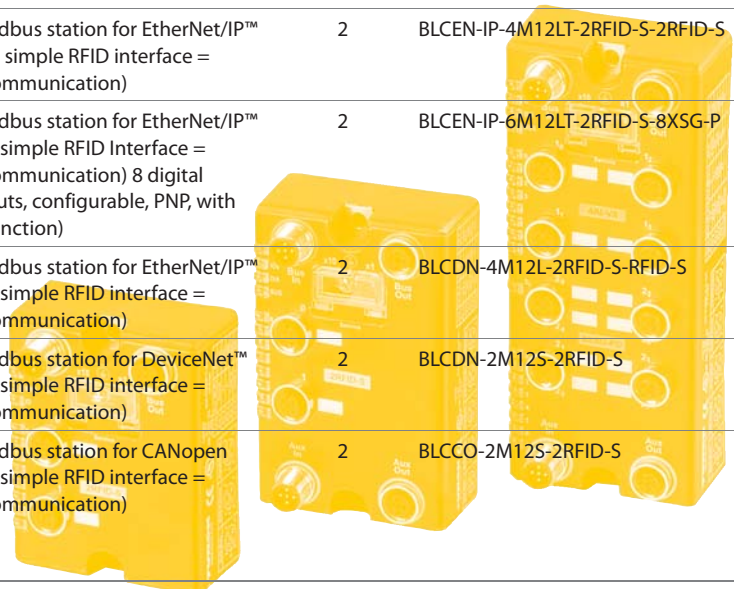
Note

No matter which control system you use, BL ident® electronic modules are easy to integrate in existing systems (BL20-2RFID-S, BL67-2RFID-S resp. sets with the

letter S in the type code). The control unit as well as the periphery are relieved because you don't need function modules any more.

BL compact – compact fieldbus stations with RFID interface in IP67

Dimensions/ housing lengths	Protection class	Module	Number of chan- nels	Type
	IP67	Compact fieldbus station for PROFI-BUS-DP (<i>BL compact</i> , advanced RFID interface = acyclic data exchange)	2	BLCDP-2M12MT-2RFID-A
	IP67	Compact fieldbus station for PROFI-BUS-DP (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCDP-2M12MT-2RFID-S
	IP67	Compact fieldbus station for EtherNet/IP™ (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCEN-IP-2M12MT-2RFID-S
	IP67	Compact fieldbus station for PROFI-BUS-DP (<i>BL compact</i> , simple RFID interface = simple I/O communication and 8 digital I/Os, configurable, PNP, with diagnostic function)	2	BLCDP-6M12LT-2RFID-S-8XSG-PD
	IP67	Compact fieldbus station for DeviceNet™ (<i>BL compact</i> , simple RFID Interface = simple I/O communication) 8 digital inputs/ outputs, configurable, PNP, with diagnostic function)	2	BLCDN-6M12LT-2RFID-S-8XSG-PD
	IP67	Compact fieldbus station for DeviceNet™ (<i>BL compact</i> , advanced RFID interface = acyclic data exchange) 8 digital inputs, PNP, with diagnostic function)	2	BLCDP-6M12LT-2RFID-A-8DI-PD
	IP67	Compact fieldbus station for DeviceNet™ (<i>BL compact</i> , advanced RFID interface = acyclic data exchange) 8 digital inputs/ outputs, configurable, PNP, with diagnostic function)	2	BLCDP-6M12LT-2RFID-A-8XSG-PD
	IP67	Compact fieldbus station for DeviceNet™ (<i>BL compact</i> , simple RFID interface = simple I/O communication) 8 digital inputs, PNP, with diagnostic function)	2	BLCDP-6M12LT-2RFID-S-8DI-PD
	IP67	Compact fieldbus station for CANopen (<i>BL compact</i> , simple RFID interface = simple I/O communication) 8 digital inputs/ outputs, configurable, PNP, with diagnostic function)	2	BLCCO-6M12LT-2RFID-S-8XSG-PD
	IP67	Compact fieldbus station for EtherNet/IP™ (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCEN-IP-4M12LT-2RFID-S-2RFID-S
	IP67	Compact fieldbus station for EtherNet/IP™ (<i>BL compact</i> , simple RFID Interface = simple I/O communication) 8 digital inputs/ outputs, configurable, PNP, with diagnostic function)	2	BLCEN-IP-6M12LT-2RFID-S-8XSG-P
	IP67	Compact fieldbus station for EtherNet/IP™ (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCDN-4M12L-2RFID-S-RFID-S
	IP67	Compact fieldbus station for DeviceNet™ (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCDN-2M12S-2RFID-S
	IP67	Compact fieldbus station for CANopen (<i>BL compact</i> , simple RFID interface = simple I/O communication)	2	BLCCO-2M12S-2RFID-S



Description	Type
Mounting clip for read/write heads Ø 18 mm	BS18
Mounting clip for read/write heads Ø 18 mm	BSN18
Mounting clips with limit stop for read/write heads Ø 18 mm	BST-18B
Mounting clips with limit stop for read/write heads Ø 18 mm	BST-18N
Quick-mount for read/write heads Ø 18 mm	QM-18
Teflon cover cap for read/write heads Ø 18 mm	SKN/M18
Mounting clip with limit stop for read/write heads Ø 30 mm	BST-30B
Mounting clip without limit stop for read/write heads Ø 30 mm	BST-30N
Quick-mount for read/write heads Ø 30 mm	QM-30
Teflon cover cap for read/write heads Ø 30 mm	SKN/M30
Mounting aid for BST mounting clips	BST-UH
Mounting aid for BST mounting clips	BST-UV
Inscription labels for BST mounting clips	BST-BS
Protective mounting for read/write head CK40 (single-sided)	MF-CK40-1S
Protective mounting for read/write head CK40 (angled)	MF-CK40-2S
Protective mounting for read/write head CK40 (U-shaped)	MF-CK40-3S
Protective mounting for read/write head CK40	SG40
Teflon cover cap for read/write head CK40	T-CK40-T-FC
Protective mounting, temperature resistant, for read/write head CK40	SG40/2
Adjustable DIN rail for read/write head CK40	FS025/037
Spacer, plastic, for data carrier Ø 30 mm	DS-R30
Spacer, plastic, for data carrier Ø 50 mm	DS-R50
Mounting flange for data carrier TW-R30-M-...	MF-R30
Mounting flange for data carrier TW-R50-M-...	MF-R50
Mounting flange for data carrier TW-R80-M-...	MF-R80



BL ident® – cordsets

Prefabricated cables for connection of interfaces and read/write heads

Dimensions/housing lengths	Description	Type	
		Standard	Economy
	BL ident® cordsets Female straight, Male straight, 0.3 m Female straight, Male straight, 2 m Female straight, Male straight, 5 m Female straight, Male straight, 10 m Female straight, Male straight, 25 m Female straight, Male straight, 50 m	RK4.5T-0,3-RS4.5T/S2500 RK4.5T-2-RS4.5T/S2500 RK4.5T-5-RS4.5T/S2500 RK4.5T-10-RS4.5T/S2500 RK4.5T-25-RS4.5T/S2500 RK4.5T-50-RS4.5T/S2500	RK4.5T-0,3-RS4.5T/S2503 RK4.5T-2-RS4.5T/S2503 RK4.5T-5-RS4.5T/S2503 RK4.5T-10-RS4.5T/S2503 RK4.5T-25-RS4.5T/S2503 RK4.5T-50-RS4.5T/S2503
	BL ident® cordsets: Female angled, Male straight, 2 m Female angled, Male straight, 5 m Female angled, Male straight, 10 m Female angled, Male straight, 25 m Female angled, Male straight, 50 m	WK4.5T-2-RS4.5T/S2500 WK4.5T-5-RS4.5T/S2500 WK4.5T-10-RS4.5T/S2500 WK4.5T-25-RS4.5T/S2500 WK4.5T-50-RS4.5T/S2500	WK4.5T-2-RS4.5T/S2503 WK4.5T-5-RS4.5T/S2503 WK4.5T-10-RS4.5T/S2503 WK4.5T-25-RS4.5T/S2503 WK4.5T-50-RS4.5T/S2503
	BL ident® cordsets Female straight, 2 m Female straight, 5 m Female straight, 10 m Female straight, 25 m Female straight, 50 m	RK4.5T-2/S2500 RK4.5T-5/S2500 RK4.5T-10/S2500 RK4.5T-25/S2500 RK4.5T-50/S2500	RK4.5T-2/S2503 RK4.5T-5/S2503 RK4.5T-10/S2503 RK4.5T-25/S2503 RK4.5T-50/S2503
	For the food industry: Female straight, 5 m Female straight, 10 m Female straight, 25 m Female straight, 50 m Female angled, 5 m Female angled, 10 m Female angled, 25 m Female angled, 50 m	FB-RK4.5T-5/S2500 FB-RK4.5T-10/S2500 FB-RK4.5T-25/S2500 FB-RK4.5T-50/S2500 FB-WK4.5T-5/S2500 FB-WK4.5T-10/S2500 FB-WK4.5T-25/S2500 FB-WK4.5T-50/S2500	
	BL ident® cordsets Female angled, 2 m Female angled, 5 m Female angled, 10 m Female angled, 25 m Female angled, 50 m	WK4.5T-2/S2500 WK4.5T-5/S2500 WK4.5T-10/S2500 WK4.5T-25/S2500 WK4.5T-50/S2500	WK4.5T-2/S2503 WK4.5T-5/S2503 WK4.5T-10/S2503 WK4.5T-25/S2503 WK4.5T-50/S2503
without figure	Bulk cable, 100	KABEL-BLIDENT-100M	KABEL-BLIDENT-100M
	Field-wireable male connector M12, clamping width 6...8 mm, 5-pole, screw terminals	BS8151-0/9	
	Field-wireable female connector M12, clamping width 6...8 mm, 5-pole, screw terminals	B8151-0/9	

Connection aids – the full range

Prefabricated bus and supply cables as well as bus and power supply accessories by TURCK are of course the number one choice.



TURCK also offers a handheld (programming unit) for reading from and writing to data carriers at any required location.

Thanks to the illuminated touchscreen, the data is clearly visible and editable before it is written to the TURCK data carrier, (display in decimal, binary, hexadezimal and ASCII code).

The handheld PD-IDENT operates with Windows CE and withstands even heavy shocks and jolts. It is thus well suited for rough industrial environments.

To line-up data with a database you simply exchannel an Excel table.

Other features include:

- Automatic read operation
- Automatic comparison of data records
- Definition of password protected areas
- Optional WLAN, Bluetooth and GPRS features

Type	Description
PD-IDENT	Handheld incl. docking station ¹
PD-IDENT-RWBCS	Handheld with RFID reader module, bar code scanner, camera, Bluetooth and WLAN ¹
PD-IDENT-WLAN	Handheld with WLAN feature ¹
PD-IDENT-BC	Battery charger
PD-IDENT-CB	Carrying case
PD-IDENT-DS	Docking station, incl. power pack, RS232 cable
PD-IDENT-PF	Protective foil for display (25 pieces) ¹
PD-IDENT-RB	Replacement battery
PD-IDENT-RS	Replacement pins (25 pieces)
PDA-IDENT	Handheld without antenna incl. docking station, Bluetooth and WLAN
PDA-IDENT-IA	Internal Antenna for PDA-IDENT

¹ incl. PD-IDENT-DS docking station with power supply and RS232 cable, PD-IDENT-BC battery charger and tRFID software



PDA-IDENT with accessories

PD-IDENT



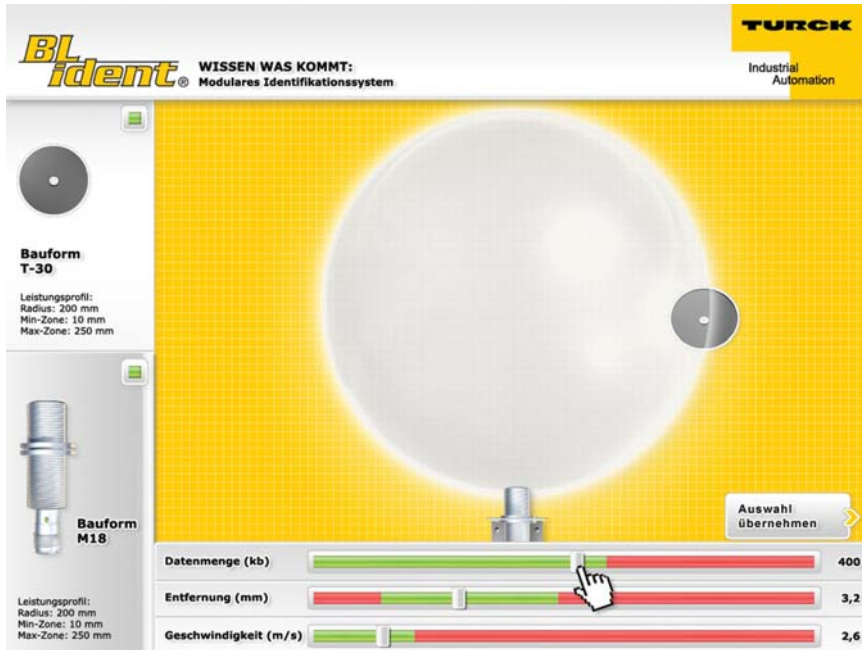
Open

The BL ident® handheld PD-IDENT operates with Windows CE and is therefore open for customer-specific applications such as disabling certain functions. Simple user surfaces can be created according to your requirements.

Availability

The optional WLAN connection allows the BL ident® handheld to transfer data directly to a PLC or PC regardless of the location. This means that the data is always available even when the automated system is stopped.

BL ident® – configurator



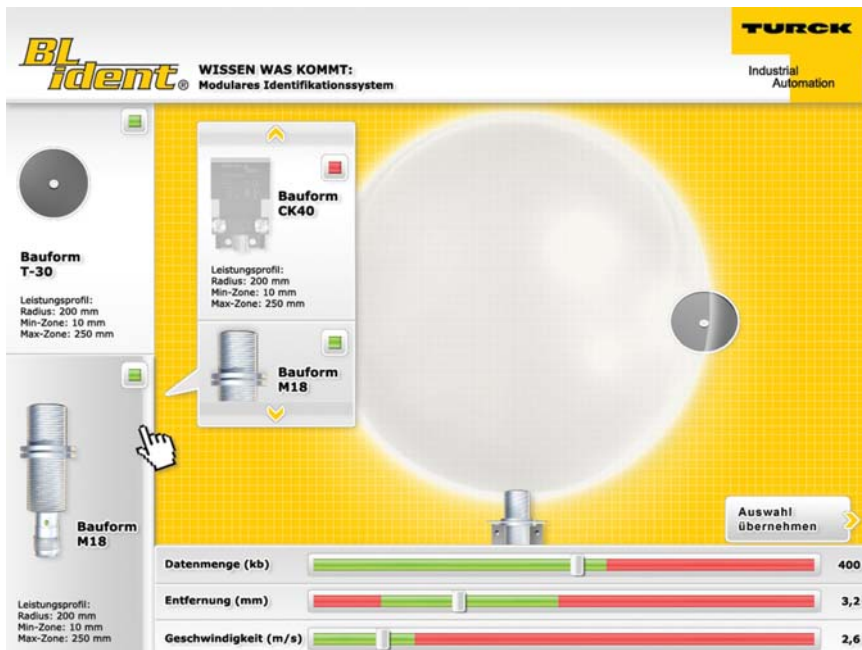
In many industrial sectors, the use of sensors and actuators and even fieldbuses is state-of-the-art. However, when RFID systems are applied, questions regarding the air interface always arise, such as “How fast or how close should parts pass by the read/write heads?” In general, a great deal of uncertainty exists regarding the application possibilities of RFID.

General information such as “recommended read/write interval” or “transfer rate = 0.5 ms/byte” are usually insufficient for evaluating the use of the equipment, because application variables such as data quantity, speed and distance result from complex interaction between the read/write heads and the data carriers.

With the „BL ident® configurator” it is now possible to simulate the specific application and enables preliminary selection of the right equipment.

The possibilities and limits of specific combinations are quickly detected by setting the application parameters and “playing” with the values.

The online version of the configurator (freeware available on www.turck.com) is linked to the TURCK product database and therefore provides up-to-date data. With the configurator you can not only simulate applications, you can also generate the corresponding data sheets and documents.



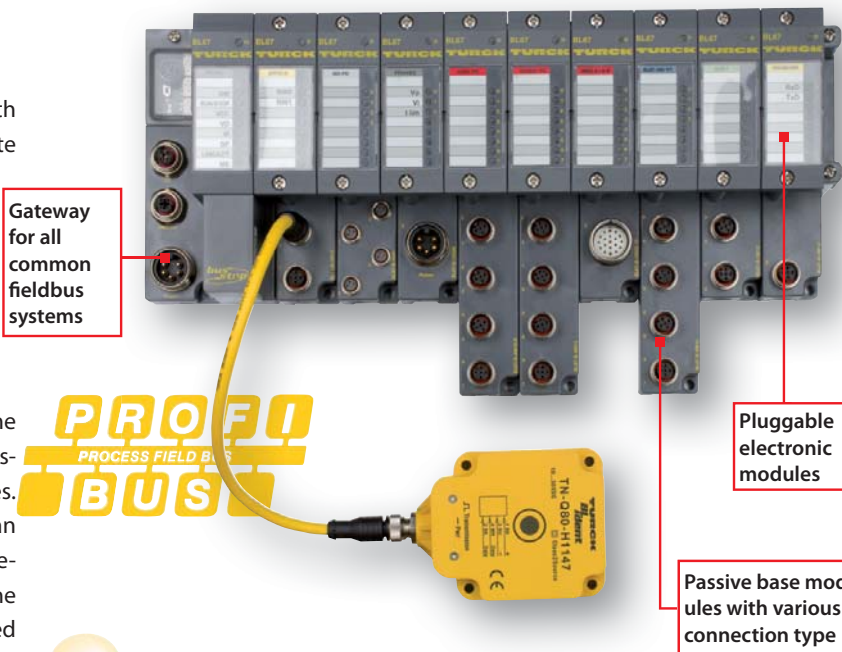
Even limited space conditions are no longer a problem. You can easily integrate the configurator in your system.



Extension of *BL ident*[®] with standard I/O-modules

BL ident[®] – IP67 protected

BL ident[®] in IP67 can be extended with standard I/O modules. You get a remote I/O system that incorporates all characteristics and advantages of modern IP20 systems in the rough IP67 environment. Flexibility and planning freedom on all levels is thereby imperative: The I/O modules can be operated independently from field-bus via the BL67 rated gateway. The gate-way controls the entire data transfer between fieldbus and I/O modules. Furthermore, the electronic modules can be plugged and unplugged during operation without having to disconnect the field wiring. The system can be mounted directly on the machine as well as on DIN rails.



Gateway for all common fieldbus systems

Pluggable electronic modules

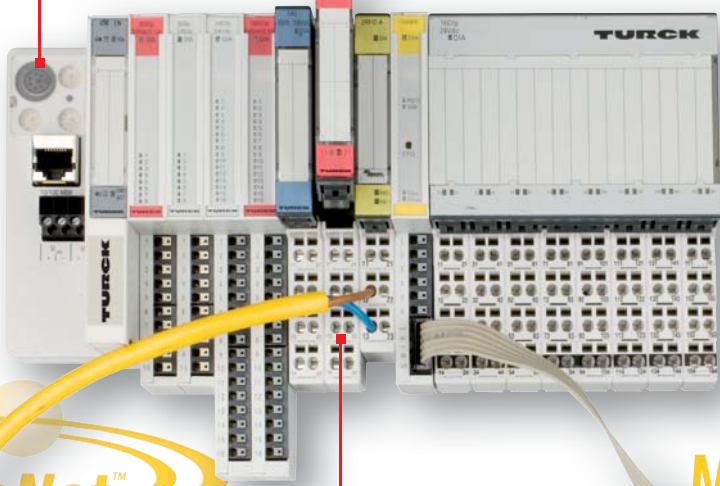
Passive base modules with various connection type

PROFIBUS
PROCESS FIELD BUS

EtherNet/IP™

Gateways for all common fieldbus systems

Pluggable electronic modules



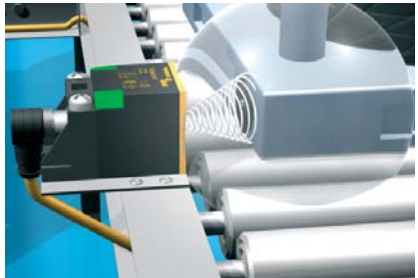
Base modules based on terminal block technology

BL ident[®] – IP20 protected

BL ident[®] in IP20 is designed for the integration in standard I/O modules and suited for all common fieldbus systems. Gateways are the linking element to control the entire data transfer between the fieldbus system and the I/O modules. Each BL20 station consists of a bus coupler, electronic and base modules. The base modules are easily clipped on a DIN rail without tools and the electronic modules are clipped on the base modules. Base and electronic modules are mechanically coded and therefore simply and safely allocated.

DeviceNet™

Modbus TCP

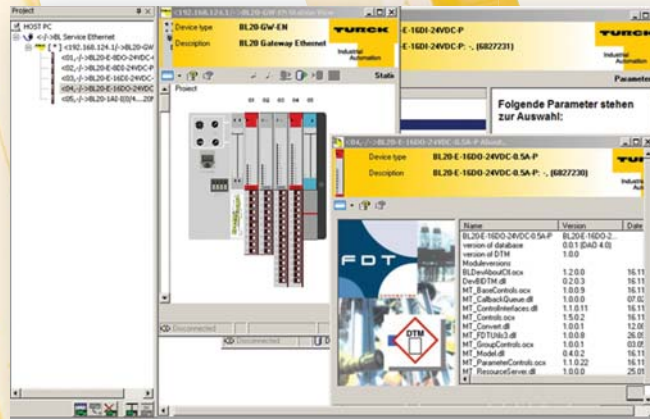




Simple parameterization via DTM

System parameterization is implemented via a graphical interface on the basis of FDT/DTM technology.

On www.turck.com DTMs are free for download and can be integrated in any FDT frame application for configuration, commissioning and maintenance purposes.



Easy programming with CoDeSys

The programmable gateways become decentral control units through the CoDeSys programming software.

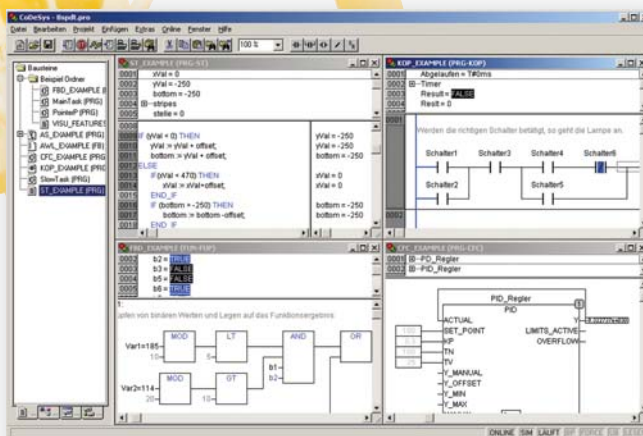
The graphical programming interface supchannels all IEC-61131-3 programming languages:

- Statement list (STL)
- Ladder Diagram (LD)
- Continuous Function Chart (CFC)
- Structured Text (ST)
- Sequential Function Chart (SFC)



CoDeSys

Numerous diagnostics and commissioning functions as well as prefabricated function modules for the RFID system *BL Ident*® make BL20 and BL67 universally applicable I/O systems.



www.turck.com

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