BL ident®

read/write head
TN866-Q120L130-H1147

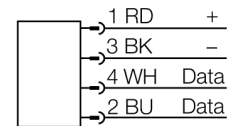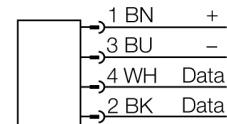**TURCK**

Industrial Automation

- Rectangular, height 60 mm
- Active face in front
- Plastic, ABS
- Powered and operated only via BL ident interface module
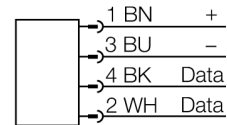- Male M12 x 1, only for use with BL ident extension cable

Connectors …/S2503

1 RD	+
3 BK	−
4 WH	Data
2 BU	Data

…/S2500 Connectors

1 BN	+
3 BU	−
4 WH	Data
2 BK	Data

…/S2501 Connectors

1 BN	+
3 BU	−
4 BK	Data
2 WH	Data

Type designation	TN866-Q120L130-H1147
Ident no.	7030671
Mounting conditions	non-flush
Ambient temperature	-20…+50 °C
Operating voltage	12… 24VDC
DC rated operational current	≤ 1000 mA
Data transfer	alternating electromagnetic field
Operating frequency	866 … 867.6 MHz
Radio communication and protocol standards	ISO 18000-6C
	EN 302208
	EPCglobal Gen 2
Channel spacing	200 kHz
Output power	≤ 0.5 W (ERP), adjustable
Antenna polarization	RHCP
Antenna HPBW	110°
Read/write distance max.	3000/1500 mm
Output function	4-wire, read/write
Construction	rectangular
Dimensions	130x 120x 60mm
Housing material	Aluminium, AL, silver
Active area material	Plastic, ABS, black
Electrical connection	Flange connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Power-on indication	LED green
Diagnostic display	differently adjustable
Packaged quantity	1

Functional principle

The UHF read/write heads form an air interface the size of which may vary, depending on the combination of read/write head and data carrier used.

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

Attainable distances may vary 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 on-the-fly reading and writing!

Because of the higher energy needs of the transponder on a write, the distance is reduced to approximately 40-60 % of the reading range.