

# Product Information

## Summary of Sensors

### to connect to the LANCIER Tx-Bus

All sensor types mentioned below are connectable to the LANCIER Tx-Bus. They are applicable for a wide spectrum of tasks.

The LANCIER Tx-Bus is a robust two-wire bus. It only requires a dedicated pair of a copper cable. Up to 127 sensors can be connected to a single pair to transmit their measurement values in assigned time slots. Due to the fact that the power supply is also provided by means of

the transmitting pair, an external supply voltage is obsolete. The working distance of the Tx-Bus reaches up to 200 (!) km, depending on the cable type and quality, thus enabling monitoring tasks in even very remote areas of the network.

More details about the function of the Tx-Bus and the achievable ranges can be found in the "LANCIER Tx-Bus Engineering information".

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**Joint installation (M):**  
88 x 30 x 16 mm, IP 20

**Snap-on housing (S):**  
100 x 22.5 x 75 mm, IP 20

**Multi housing (E):**  
165 mm, diam. 50 mm, IP 68

## Technical Data

Name	PTxA 210	HPTxA	HTxA 5/95	TTxA	MTxA	CDtA 4 S	CDtA 4 L	U5DtA
Parameter	Pressure	High Pressure	Humidity	Temperature	Humidity and Temperature	Contact	Contact (Latching)	Voltage level
Measuring range	700.. 2100 mbar	0..2 bar 0..200 bar 0..200 bar	0..95% r.h.	-20..+70 °C -40..+140 °C	0..95% r.h. -20..+70 °C**	Open / Close / Broke / Short		High / Low
Resolution	1 mbar	0.1 % full scale	0.1 % r.h.	0,1 °C/0,2 °C	0.1% r.h. / 0.1°C	n/a		
Max. error	± 6 mbar	2.5 % full scale*	± 3.0 % r.h.	± 2.5 °C	± 3.0% r.h. / ±1.5°C	n/a		
Transverse impulse stability at TxBus	1500 V DC at 10/700 µs					1500 V DC at 10/700 µs 4000 V DC at 1,2/50 µs		1500 V DC at 10/700 µs
Time windows (addresses)	1			2		1		5
Operating cycle / address	2 s							
Transmission time Deviation	1.5 s, ≤ 100 ms							
Reset time	≤ 200 ms							
Supply voltage range	20 - 120 V DC							
Quiescent current typ.	50 µA					85 µA	195 µA	50 µA
Rated DC current typ.	3.5 mA							
Modulation current typ.	3,6 mA <sub>typ</sub>							
Operating temperature	-20..+70 °C					-20..+65 °C		-10..+60 °C
Storage temperature	-40..+90 °C					-30..+70 °C		-30..+80 °C
<b>Housing</b>	<b>Order-numbers</b>							
Snap-on (S)	-	-	-	063601.000	-	073985.000	073778.000	059739.000
Cable joint (M)	054471.000	-	043771.000	043772.000	072759.000	-	-	-
External /	047000.001	048338.220 (2 bar) 048338.000 (10 bar) 072013.000 (200 bar)	-	075249.000 075249.010	-	-	073779.000	-

\*Max. error at 25 °C, max. temperature drift 0.1 %/°C

\*\* other ranges on request