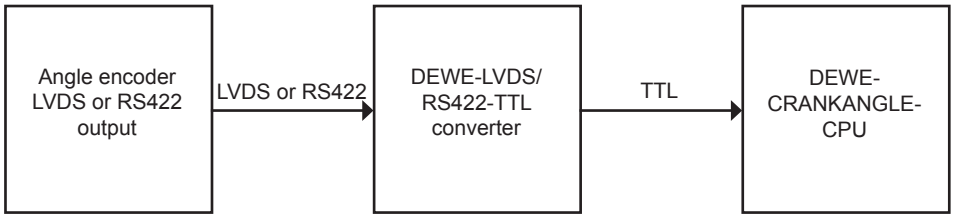
DEWE-LVDS/RS422-TTL converter

DEWE-LVDS/RS422-TTL converter



The CDM sensor input of DEWE-CRANKANGLE-CPU supports only TTL signals. With the DEWE-LVDS/RS422-TTL converter it is also possible to connect sensors with a LVDS or RS422 output to the DEWE-CRANKANGLE-CPU.

Examples for supported sensors:

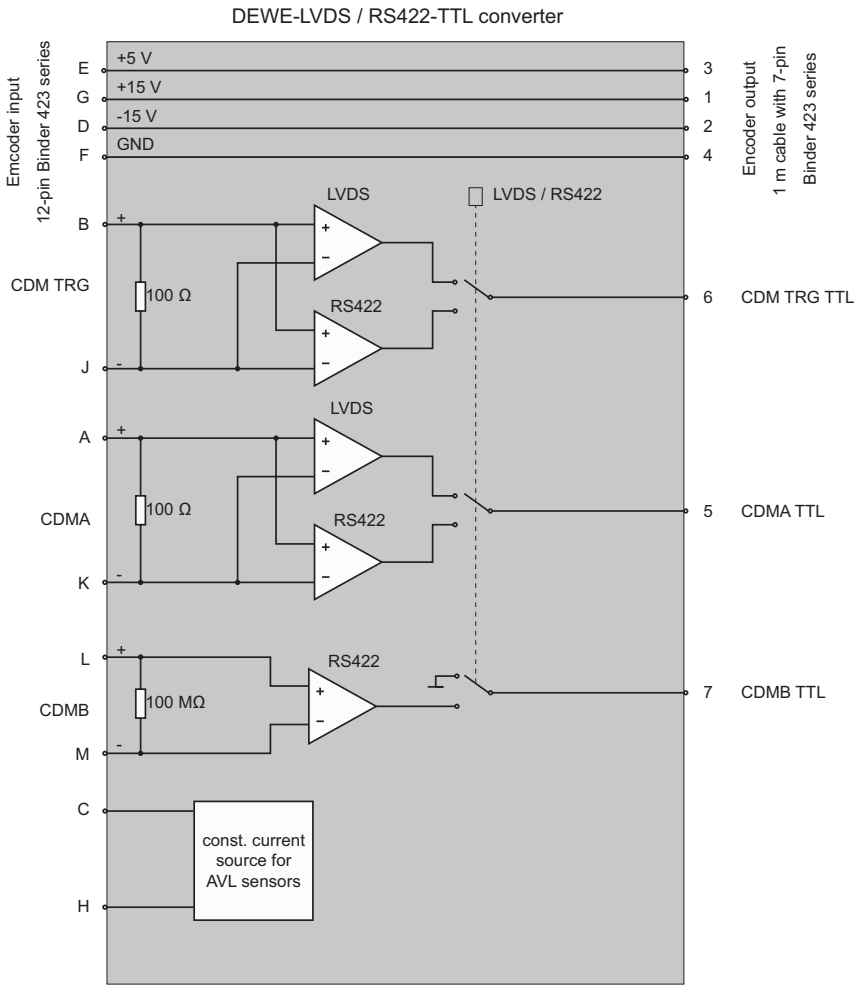
- AVL 365X, AVL 365C
- Kistler 2614A

Specifications

	DEWE-LVDS/RS422-TTL converter	
	LVDS	RS422
Termination input resistor:	100 Ω	
Electrical characteristics:		
Differential input high threshold:	max. +100 mV	max. +200 mV
Differential input low threshold:	min. -100 mV	min. -200 mV
Maximum input voltage:	0 to 5 V	
Output:	TTL	
Sensor supply:		
+5 V	5 W	
Constant current source:	83 mA	
-15 V	2 W	

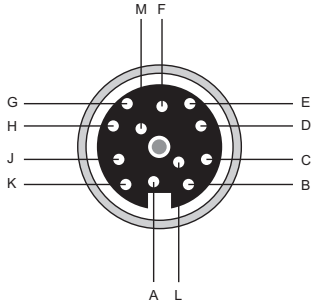
Functional description

The block diagram shows the basic operation principal of the DEWE-LVDS/RS422-TTL converter. Basically the converter consists of a LVDS and RS422 receiver, which are selectable by a slide switch. The AVL sensor 365C and 365X needs a current source supply. Therefore two additional current sources are included.



Signal connetion

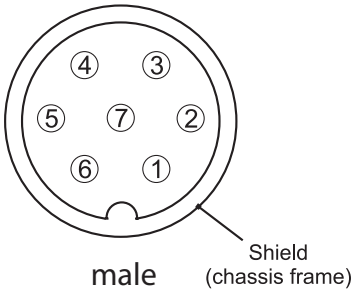
Input connector (12-pin female BINDER 423 series connector)



Pin assignment:

A:	CDMA+	G:	+15 VDC
B:	CDMTRG+	H:	Isource 2
C:	Isource 1	J:	CDMTRG-
D:	-15 VDC	K:	CDMA-
E:	+5 VDC	L:	CDMB+
F:	GND	M:	CDMB-

Output connector (7-pin male Amphenol C091A series connector)



Pin assignment:

1:	+15 VDC	5:	CDM-B
2:	-15 VDC	6:	CDM-A
3:	+5 VDC	7:	CDM-TRIG
4:	GND_ISO		

Notes