iADA iSI module– DATA SHEET

…the DOLI **i**ntelligent **S**ensor **I**nterface with 8 universal analog inputs and outputs

CHARATERISTICS

ANALOG INPUT

- **ANA IN:** 4
- **Input voltage:** ±10VDC (max. 20mA) for encoder type transducer, 24VDC for SSI Sensors
- **Resolution:** 24Bit

ANALOG OUTPUT

- **ANA OUT**: 4
- **Output voltage:** ±10VDC (max. 20mA)
- **Resolution:** 16Bit
- **Supply voltage 1 :** Continious +24VDC supply voltage (max. 100mA)
- **Supply Voltage 2 :** Continious +5VDC supply voltage (max. 50mA)

FEATURES

- **scaled output of assigned measuring channels**
- Analog IOs for universal purposes
- **“Plug and Play” in EDCi Controller**

COMPATIBLE

- **EDCi2x/5x/7x**
- iADA-D (Distribution plug)

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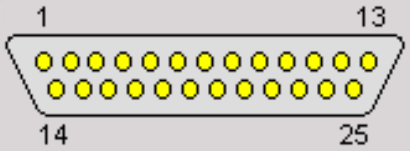
PIN DESCRIPTION



Pin	Name	Function	Signal type
1	n.c.		
2	n.c.		
3	n.c.		
4	n.c.		
5	AD_A 10V	input ±10 Volt analogue channel A	Rin = 10MΩ
6	AD_B 10V	input ±10 Volt analogue channel B	Rin = 10MΩ
7	AD_C 10V	input ±10 Volt analogue channel C	Rin = 10MΩ
8	AD_D 10V	input ±10 Volt analogue channel D	Rin = 10MΩ
9	DA_AB GND	output GND for analogue channel A and B	
10	DA_B	output ±10 Volt analogue channel B	20mA maximum Load
11	DA_D	output ±10 Volt analogue channel D	20mA maximum Load
12	DA_CD GND	output GND for analogue channel C and D	
13	+24VDC	Supply Voltage	100mA max.
14	n.c.		
15	n.c.		
16	n.c.		
17	n.c.		
18	+5VDC	Supply Voltage e.g. for Poti	50mA max.
19	AGND	Analog GND for +5VDC sensor supply	
20	AD_AB GND	input GND (±10 Volt) analogue channel A and B	
21	AD_CD GND	input GND (±10 Volt) analogue channel C and D	
22	DA_A	output ±10 Volt analogue channel A	20mA maximum Load
23	DA_C	output ±10 Volt analogue channel C	20mA maximum Load
24	CON	Sensor connected	Low active, internal pull up (3.3V)
25	GND	output GND (24 Volt)	

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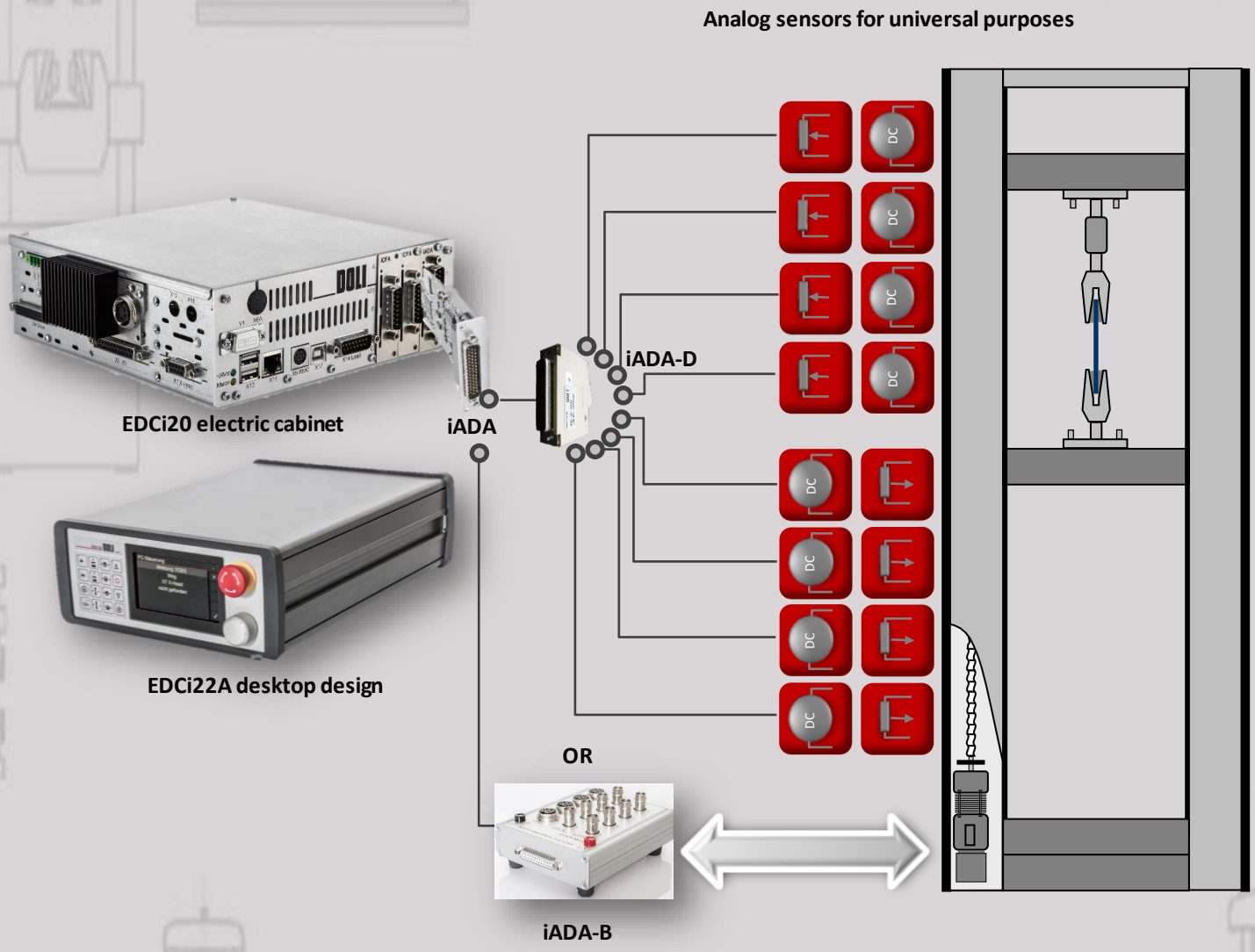
APPLICATION REFERENCE



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PART LIST

Code	Description	Part number
iADA	4 x 24 bit AD-converter and 4 x 16 bit DA-converter	1000487
	Optional: Cable adapter	
iADA-D	Distribution empty plug for iADA 25-pin	1000735
iADA-C	Connecting cable between iADA and iADA-B	7005411
iADA-B	iADA BNC connection terminal box	1000740

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