


- 24 V: 8 dig. IN and 8 dig. I/O (61131-Type2)
- 5 V-TTL: 8 dig. IN and 8 dig. OUT (galv. isolated)



combo  
control

Specification	
<b>Environment/mechanical values</b>	
Supply voltage	24 V DC (18 V...30 V), 5 W
Housing	Plastic
EMC examinations	EN 61000-6-2, EN 61000-6-4
IP Rating	IP20, acc. EN 60529
Mounting	Snap- fit on basic housing combo CM1xx, CM2xx
Outside dimension in mm (W x H x D)	with basic device: 83 x 94,8 x 23
Weight approx.	105 g
Operating temperature	0 °C...50 °C
Storage temperature	0 °C...60 °C
<b>Ordering number</b>	
23301.0010	combo - CE130
<b>Diagnostic</b>	
LEDs	LED 24 V: 8 dig. IN / 8 dig. IN- or OUT / PWROK / ERR LED 5 V-TTL: 8 dig. IN / 8 dig. OUT / PWROK
<b>Digital Inputs 24 V</b>	
Number	8 dig. IN / 8 dig. IN- or OUT
Input voltage	24 V DC (18 V...30 V)
Frequency max.	8 x 1 kHz, 8 x 10 kHz
Overvoltage	43 V
Power dissipation	0,2 W per input
<b>Digital Inputs 5 V-TTL</b>	
Number	8 dig. IN / gav. Isolated
Input voltage	5 V DC (4,5 V...5,5 V)
Frequency max.	8 x 1 kHz
Overvoltage	15 V
Power dissipation	50 mW per input @ 5V- input voltage

Digital In- or Outputs 24 V	
Number	8 dig. IN- or OUT
Total Current (acc. to the DIN)	max. 2 A
Output voltage	24 V DC / 0,5 A
Switching frequency ohm/inductive	100 kHz
Short circuit/thermal protection	Current limiting 0,7 A per channel / 150 °C fuse 2,5 A for total current
Stepper motor controller	8 independent channels each with 10 kHz for pulse and direction
Reverse polarity protection	yes
Wire length max.	600 m (unshielded), 1000 m (shielded)
Power dissipation	0,2 W per output
Connection of digital in- and outputs	2 x socket and plug 18-pole; contact spacing 3,5 mm, conductor crosssection up to 0,2 ... 1,0 mm <sup>2</sup> , 5 A Weidmüller : B2CF 3.50/18
	
Digital Outputs 5 V-TTL	
Number	8 dig. OUT / galv. isolated / NO external supply necessary
Total Current (acc. to the DIN)	max. 200 A
Output voltage	5 V-TTL / I <sub>max</sub> . 20 mA
Switching frequency ohm/inductive	10 kHz
Short circuit/thermal protection	Short- circuit- proof, switch-off through dissipation loss
Stepper motor controller	8 independent channels each with 10 kHz for pulse and direction
Wire length max.	< 30 m
Power dissipation	0,1 W per output
Standards	
Product standard	EN61131-2 Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007
Immunity and interference	EN61000-6-2 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Emission standard for industrial environments (IEC 61000-6-2:2005); German version EN 61000-6-2:2005
	EN61000-6-4 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German version EN 61000-6-4:2007 + A1:2011
Environment audit	EN60068-2-6 Environmental influences - part 2-6: Test procedure - test Fc: Schwingen (sinusoidal) (IEC 60068-2-6:2007); German version EN 60068-2-6:2008
	EN60068-2-27 Environmental influences - Part 2-27: Test procedure - Test Ea and Guidance: Schocken (IEC 60068-2-27:2008); German version EN 60068-2-27:2009
Applications	
in many industries such as plastics, medical- and automation technology	

Illustrations, descriptions, dimensions and specifications correspond to the circumstances or intentions at the time of printing this brochure. Changes of any kind, especially those resulting from technological progress, economic performance or a similar will be without notice. The external interconnection of equipment will be on your own responsibility

\*Remark: The use of standard memory card (e.g. CF-cards is generally possible. Anyhow elrest GmbH does not take any responsibility thereby.