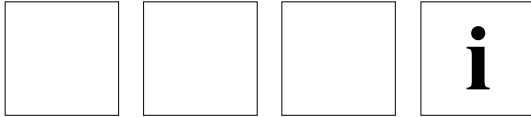


Distributor-Box IV-30



- **Module with Incremental-Encoder-Connection**
- 5V differential, 493-00100
- 24V single-phase, 493-00101
- **All inputs and outputs of the signals galvanically isolated**
- **Six output channels with adjustable output levels (RS422, 11-29V)**

Electrical Data

Operating Voltage	24 V DC $\pm 20\%$
Reverse Battery Protection	yes
Transient Voltage Protection.....	ESD
Excess Current Release	VDE 0113
Filter Groups	IEC 1000-4-x
Current Consumption (without Encoder, Load).....	approx. 120mA
Min./Max. Input Current per Channel	1,5mA / 20mA (diode current Optocoupler)
Encoder-Connection	Incremental-serial, electrically isolated from the outputs
Incremental Signals (5V, differential).....	K0, /K0, K1, /K1, K2, /K2
Incremental Signals (24V, single-phase).....	K0, K1, K2
Max. Pulse Frequency	250 kHz
Number of Output Channels	6
Output Level.....	adjustable via a jumper coding
Differential.....	* RS422 according to DIN 66 384 or ISO/IEC 8482
Differential.....	+(11-29) VDC, 30 mA
Optional	
Aux. Voltage Output, Incremental Inputs	+5 VDC for galvanically uncoupled +5 VDC encoder, max. 300 mA
Aux. Voltage Output, Incremental Outputs	galvanically uncoupled +5 VDC per channel, max. 150 mA

* The given norm defines the signal levels as follows:

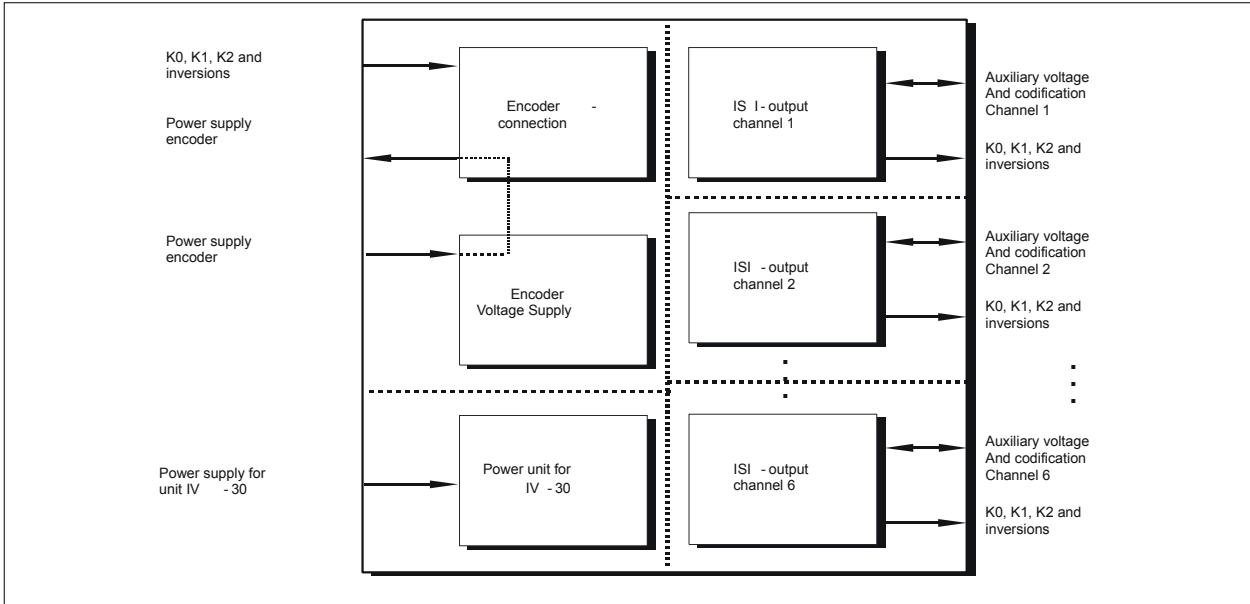
- Reference is respectively the 0 V of the receiver
- The signals may "float" from -7 V to $+12\text{ V}$ (common-mode range)
- Transmitter side: difference level $> \pm 1.5\text{ V}$ / Receiver side: difference level $> \pm 0.3\text{ V}$

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Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating temperature	0 to $+60^\circ\text{C}$ (Option -20 to $+70^\circ\text{C}$)
Storage temperature range	-20 to $+50^\circ\text{C}$
Protection	IP 30 (DIN 40 050)

Block diagram IV-30



Dimensional Drawing

