



for use in automatic EDS and IMS systems



Function

(6) The sequence processor AD1060 is put into operation by means of the "Ein/Aus on/off" switch.

(5) „Umlauf / scanning, Schnellumlauf / fast scanning, Stop“

When this switch is in position „scanning“, the board automatically starts to lock on the AK1010 or AK1011 boards.

In the position „Stop“ the board proceeds clockwise until the next transfer pulse is activated.

When the switch is in position „fast scanning“, the AD1060 proceeds at normal speed until the transfer pulse is activated. Then the relay boards AK1010 or AK1011 continue to proceed at high speed.

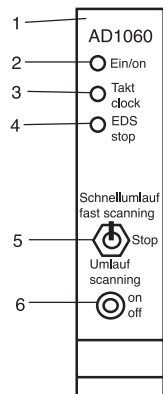
(3) „Takt/clock LED“

The „Takt/clock LED“ indicates whether the board is operating in clock pulse or the board has been stopped (LED illuminates continuously)

(4) „EDS Stop LED“

The „EDS Stop LED“ is used in EDS systems. The LED illuminates when **one** scanning cycle is completed.

- 1 Design 3 HE, 8 TE
- 2 operation LED
- 3 Takt/clock LED
- 4 EDS stop LED
- 5 Functional switch
- 6 On/off switch



Product description

The sequence processor AD1060 is an electronic device designed in Eurocard format, (3 HE, 4 TE) for universal application.

Its function is to select automatically the relay boards AK1010 and AK1011 and to output various signals (measurement suppression, EDS STOP, signal, fault signal and reset pulse).

The board allows 10 AK1010 or AK1011 in one IMS system or 9 boards in one EMS system to be locked on.

Operator's elements on the electronic board

„S5“ (see wiring diagram)

The number of relay boards (AK1010, AK1011) which are used in one system can be selected by means of the switch S5. Up to 10 boards can be used in IMS systems and up to 9 boards in EDS systems.

„S4“ (see wiring diagram)

With S4 the function of the board can be determined. The „EDS...IMS“ position must be fixed by soldering.

„S3“ (see wiring diagram)

S3 is a BCD code switch which allows to select various lock-on times depending on the position (see time adjustment „S3“).

„R17“ (see wiring diagram)

By means of this trimming potentiometer the time of measurement suppression can be adjusted (1... approx. 90 sec).

„Reset pulse“

A reset pulse of 1,5 sec is activated between the lock-ons.

„transfer pulse“

1,5 sec before switching off the mains the transfer pulse is activated and is reset with switching off the mains.

Technical data AD1060

Supply Voltage U_s	DC 24 V $\pm$ 1%
I_N	max. 120 mA
Enable input A-L	
Electronic output U	DC 24 V $\pm$ 20%
not floating	max. 30 mA
Channel output 1...6	
Electronic output U	DC 24 V $\pm$ 20 %
not floating I	max. 30 mA
NO contact, reset pulse U	AC/DC 24 V
Switching capacity max.	125 VA
Mechanical endurance min.	1.8×10^7
NO contact, measurement suppression U	AC/DC 24 V
Switching capacity max.	125 VA
Mechanical endurance min.	1.8×10^7
NO contact, transfer pulse U	AC/DC 24 V
Switching capacity max.	125 VA
Mechanical endurance min.	1.8×10^7
NO contact EDS stop U	AC/DC 24 V
Switching capacity max.	125 VA
Mechanical endurance min.	1.8×10^7
Connection	connectors according to DIN 41 612
Plug connector	E 48, quality class I
Width of front plate	4 TE
Weight approx.	160 g

Ordering details

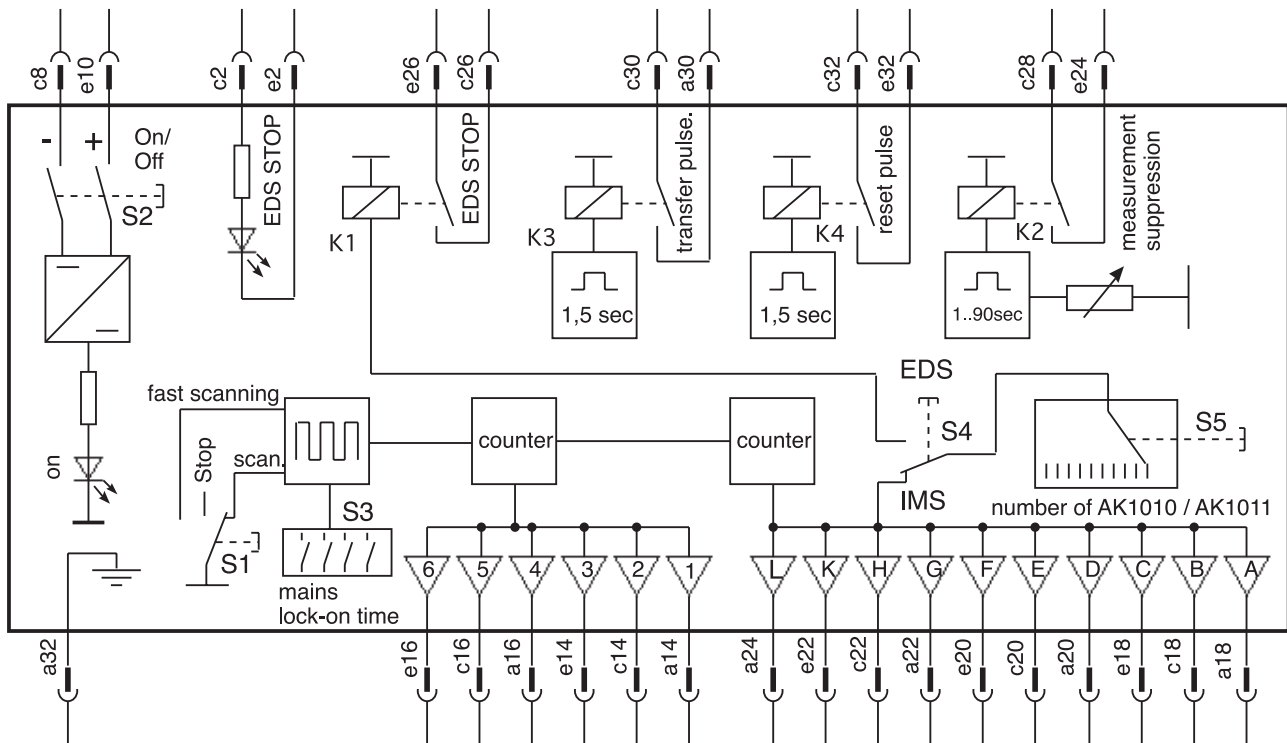
Type	Supply voltage U_s	Art. No.
AD1060	DC 24 V	B 980 769

Key to wiring diagram

Input	Output	Level	Remarks
e10		DC 24 V	supply voltage DC 24 V (+)
c8		DC 0 V	supply voltage DC 0 V (-)
	a14	DC 24 V	voltage output 24 V (+) for network 1
	c14	DC 24 V	voltage output 24 V (+) for network 2
	e14	DC 24 V	voltage output 24 V (+) for network 3
	a16	DC 24 V	voltage output 24 V (+) for network 4
	c16	DC 24 V	voltage output 24 V (+) for network 5
	e16	DC 24 V	voltage output 24 V (+) for network 6
	a18	DC 24 V	voltage output 24 V (+) for the 1st enable (A)
	c18	DC 24 V	voltage output 24 V (+) for the 2nd enable (B)
	e18	DC 24 V	voltage output 24 V (+) for the 3rd enable (C)
	a20	DC 24 V	voltage output 24 V (+) for the 4th enable (D)
	c20	DC 24 V	voltage output 24 V (+) for the 5th enable (E)
	e20	DC 24 V	voltage output 24 V (+) for the 6th enable (F)
	a22	DC 24 V	voltage output 34 V (+) for the 7th enable (G)
	c22	DC 24 V	voltage output 24 V (+) for the 8th enable (H)
	e22	DC 24 V	voltage output 24 V (+) for the 9th enable (K)
	a24	DC 24 V	voltage output 24 V (+) for the 10th enable (L)
	e2	max. DC 24 V	contact K2 (NO contact)
		max. 0,5 A	measurement suppression
	c26	max. 0,5 A	contact K1 (NO contact) EDS stop
	e26	max. 0,5 A	contact K1 (NO contact) EDS stop
	c28	max. DC 24 V	contact K2 (NO contact)
		max. 0,5 A	measurement suppression
	a30	max. DC 24 V	contact K3 (NO contact) transfer pulse
		max. 0,5 A	
	c30	max. DC 24 V	contact K3 (NO contact) transfer pulse
		max. 0,5 A	
c2		US DC 24 V	+ voltage input „EDS stop“ LED
e2		US DC 24 V	- voltage input „EDS stop“ LED
	c32	max. DC 24 V	contact K4 (NO contact)
		max. 0,5 A	reset pulse
	e32	max. DC 24 V	contact K4 (NO contact)
		max. 0,5 A	reset pulse
a32			PE connection

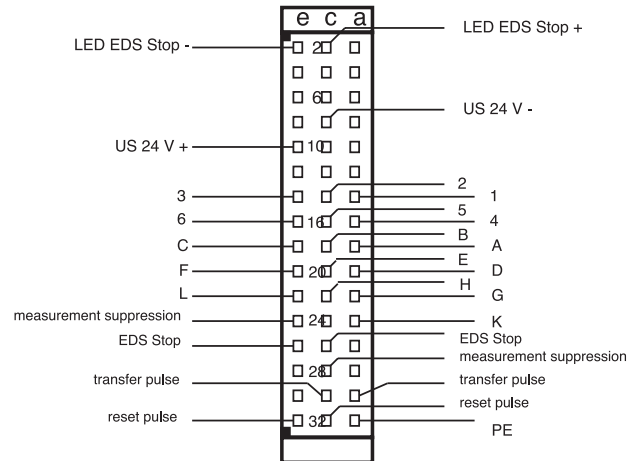
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Wiring diagram



Delay adjustment "S3"

	S4	S3	S2	S1	
	8	4	2	1	Delay
0	0	0	0	0	
1	0	0	0	1	approx. 6 sec
2	0	0	1	0	approx. 12 sec
3	0	0	1	1	approx. 18 sec
4	0	1	0	0	approx. 24 sec
5	0	1	0	1	approx. 30 sec
6	0	1	1	0	approx. 36 sec
7	0	1	1	1	approx. 42 sec
8	1	0	0	0	approx. 48 sec
9	1	0	0	1	approx. 54 sec
10	1	0	1	0	approx. 60 sec
11	1	0	1	1	approx. 66 sec
12	1	1	0	0	approx. 72 sec
13	1	1	0	1	approx. 78 sec
14	1	1	1	0	approx. 84 sec
15	1	1	1	1	approx. 90 sec



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