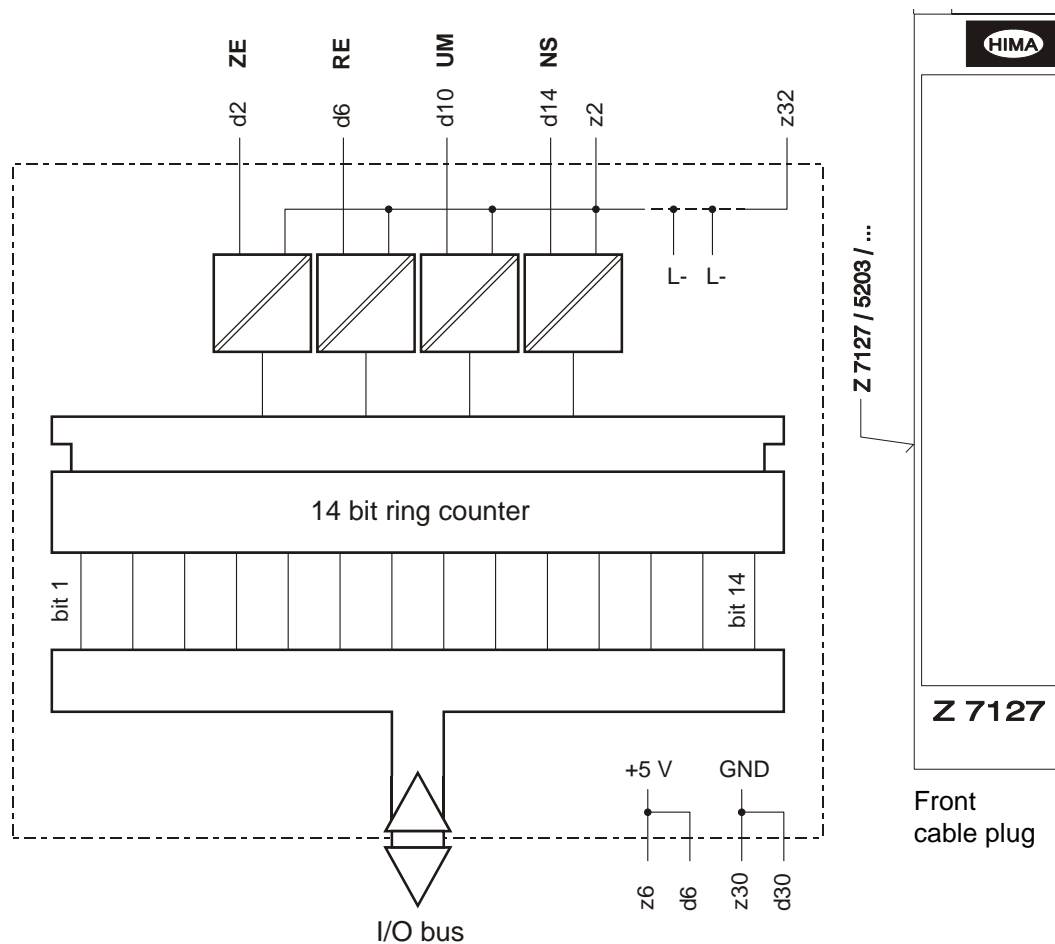




F 5203: 14 bit ring counter



Block diagram

ZE	counting input
RE	counting direction input
UM	change-over discriminator / counter
NS	zero setting input

Figure 1: 14 bit ring counter

The module records fast counting pulses. It can be used as a counter or discriminator.

Inputs	1-signal, 4 mA, 24 VDC
Counting frequency	max. 5 kHz
Counting range	0...16383
Space requirement	4 SU
Operating data	5 VDC / 300 mA

The ring counter is controlled via the inputs ZE, RE, UM, NS. The value of the ring counter can be read over the defined digital input.

With 1-signal at the zero setting input (NS) the 14 bit ring counter is set on zero and the value 32,768 is transferred to the digital output. 0-signal transfers 0 to the digital output.

Counting mode

UM = 1-signal

ZE = counting pulses

The counting direction depends on a binary signal at the input RE:

0-signal = forward,

1-signal = backward.

Discriminator mode

UM = 0-signal

ZE = counting pulses

The counting direction depends on the signal sequence of the inputs RE and ZE.

If the signal on ZE changes before RE the counting direction is forward.

If the signal on ZE changes after RE the counting direction is backward.

Function	Connection	Colour	
ZE	d2	WH	Cable LiYY 8 x 0.5 mm ²
RE	d6	BN	
UM	d10	GN	
NS	d14	YE	
none	d18	GY	
none	d22	PK	
none	d26	BU	
none	d30	RD	
L-	z2 (L-)	BK	Flat pin plug 2.8 x 0.8 mm ² q = 1 mm ² l = 750 mm

Lead marking of the cable
plug Z 7127 / 5203 / C..

Figure 2: Lead marking of the cable plug Z 7127 / 5203 / C..