



# SK10

## Signal converter

### Conversion and Level Conditioning of Encoder Signals

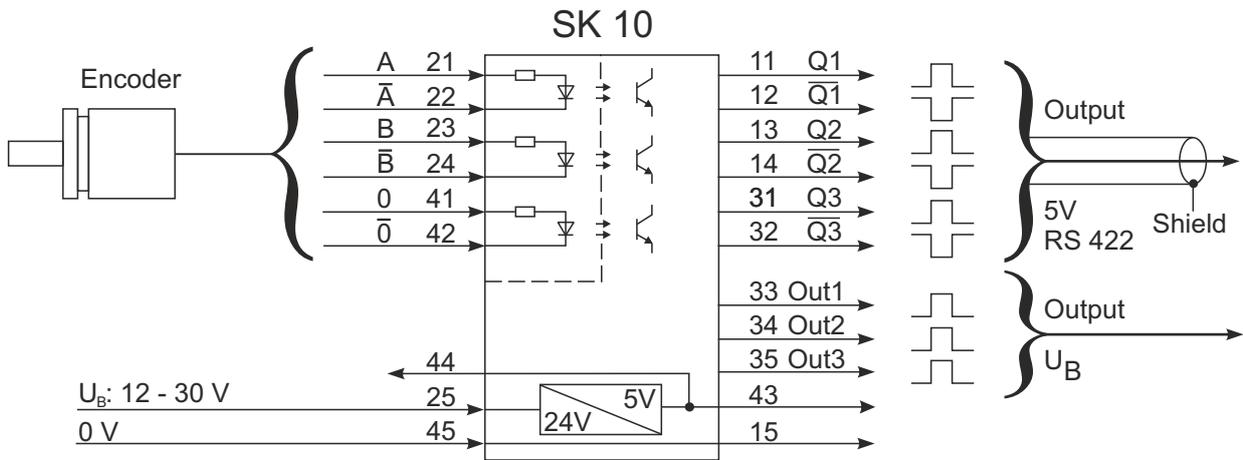
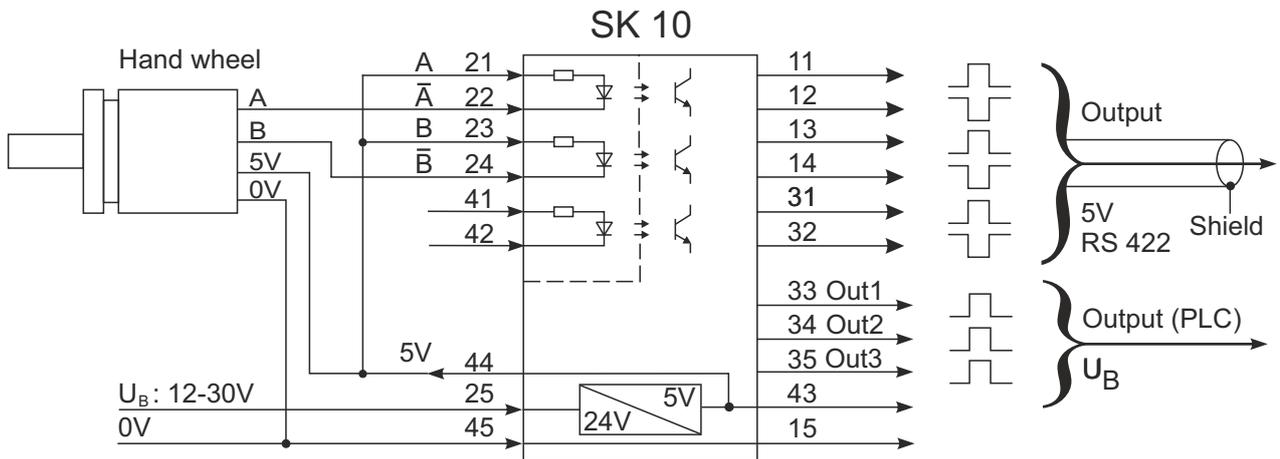
- Signal level from 5 V to 24 V (PLC compatible)
- Galvanic insulation
- 1:1 conversion
- Conversion of encoder information into clock and direction signals
- Conversion of encoder information into clock-wise (c.w.) and counterclockwise (c.c.w.) signals
- Frequency division by 4, 8, and 16
- 5V Supply for hand wheel



## Ordering Code

- SK10.101 1:1 conversion; signal level transformation
- SK10.201 Conversion into clock and direction signals
- SK10.301 Conversion into c.w. and c.c.w. signals
- SK10.400 Frequency divider

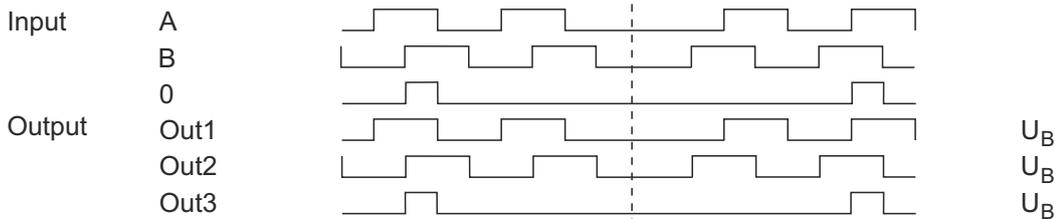
# Sample applications



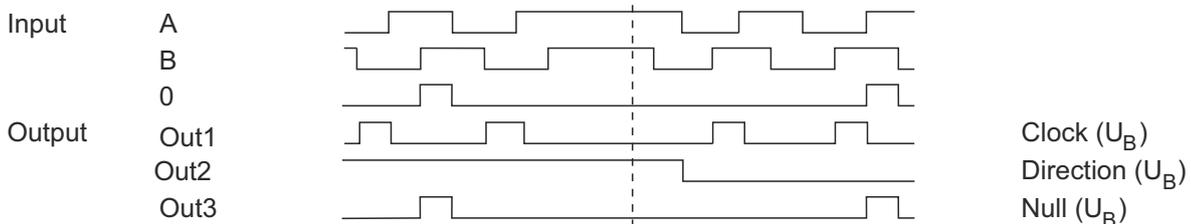
Forward

Reverse

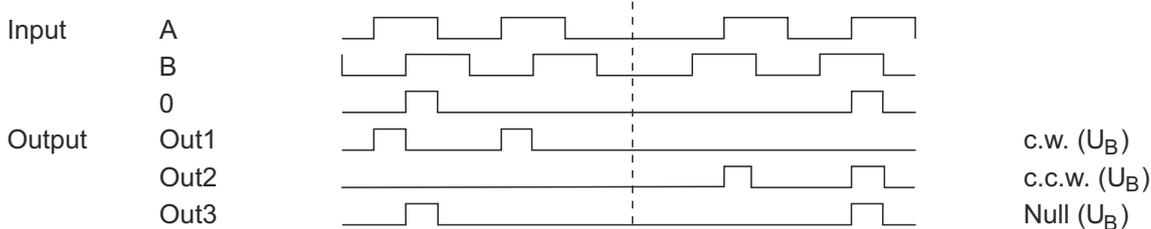
## SK10.101 Signal level conversion from 5 V to 24 V signals (PLC compatible)



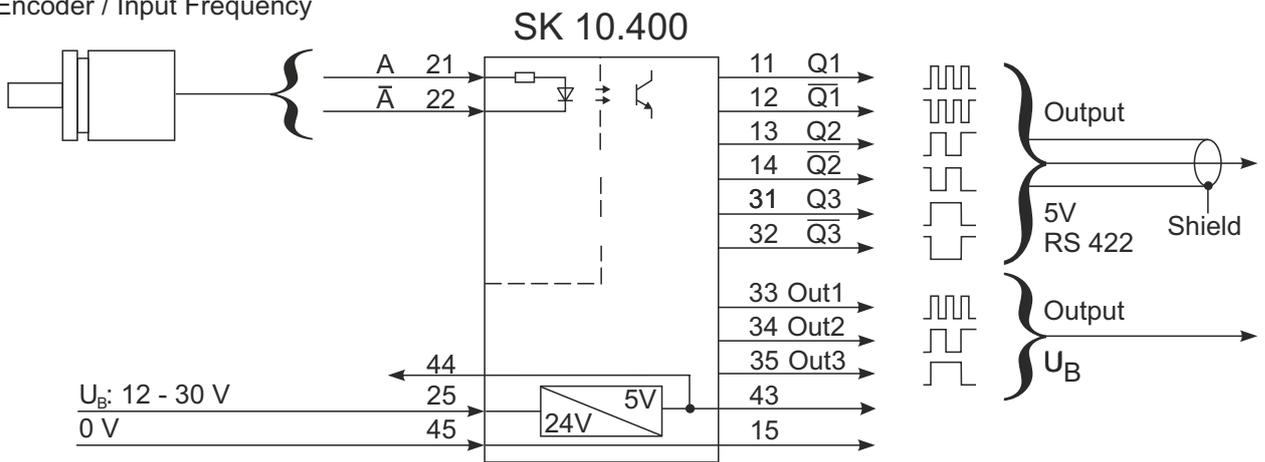
## SK10.201 Conversion of encoder information into clock and direction signals



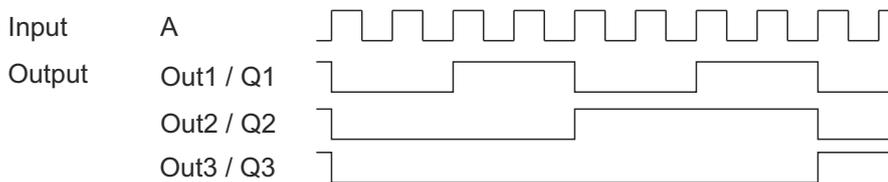
## SK10.301 Conversion of encoder information into c.w. and c.c.w. signals



Encoder / Input Frequency



**SK10.400** Signal level conversion from 5 V to 24 V-Signals or 24 V to 5 V-Signals  
 Frequency division by 4, 8, 16



## Technical Data

### General

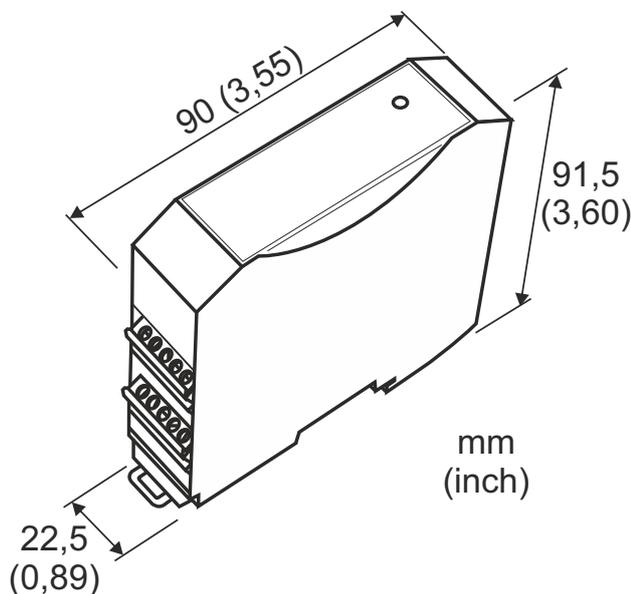
Ambient temperature: 0 to +50° C  
 Storage temperature: -20 to +70° C  
 Weight: ca. 0.1 kg  
 Dimensions: 23x92x90 (WxDxH in mm)  
 Termination: screw with wire protector  
 Mounting: TS 35 rail  
 Protective system: IP20

### Supply Voltage

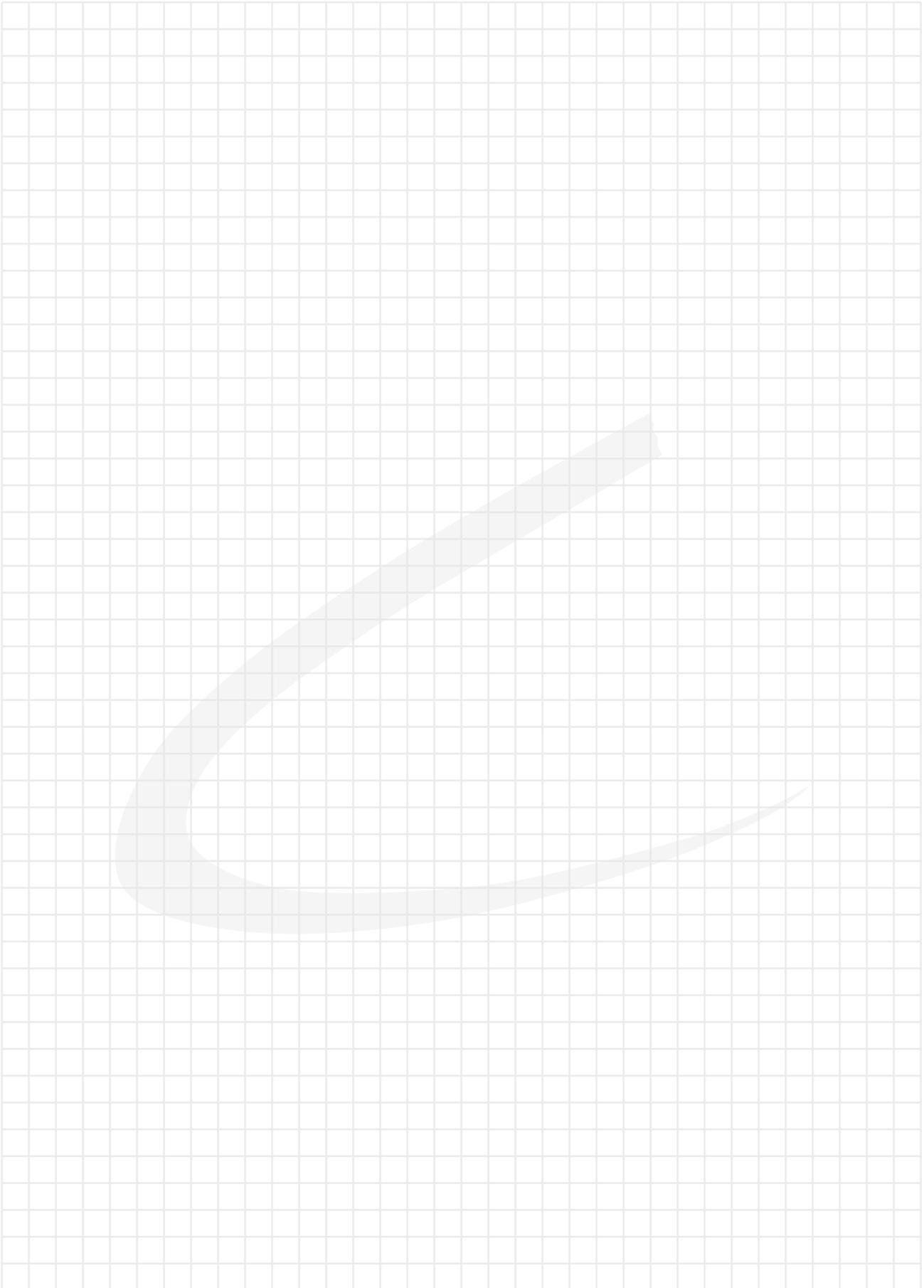
Input voltage nominal: 24 V DC +/- 20%  
 Permissible range: 12 - 30V DC  
 Ripple: < 5%  
 Reverse polarity protected: yes  
 Input current: ca. 50mA (without load)  
 Hand wheel voltage: 5 VDC max. 100mA

### Encoder Signals

Signal level: 3 - 30V DC  
 Max. Clock frequency: 100 kHz (12 - 30 V outputs)  
 300 kHz (RS422 outputs)



## Notes



All data in this folder have an informative character without warranty of characteristics. Changes without previous announcement reserved.

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