

### OPTICAL ROTARY ENCODER

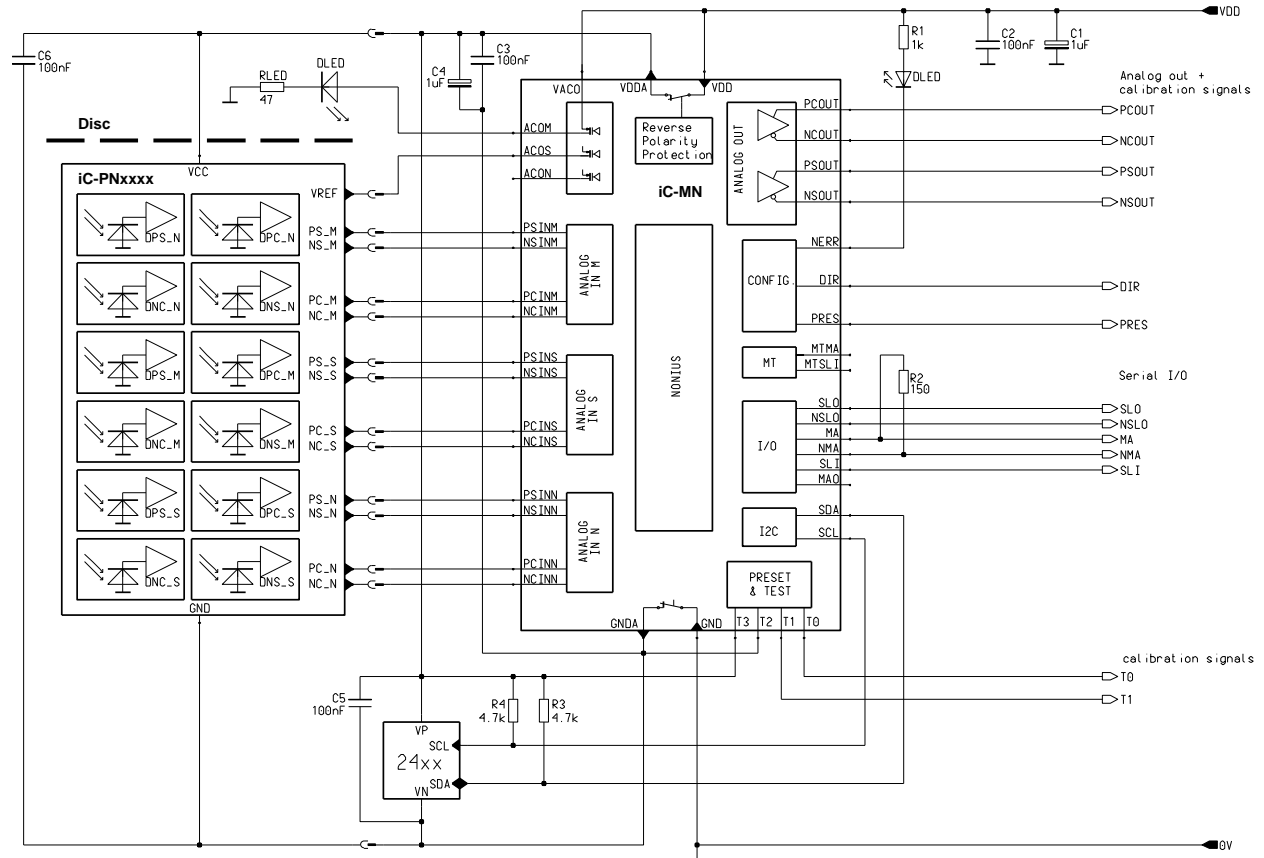


Figure 1: Application circuit of iC-MN with iC-PNxxxx for optical rotary encoder featuring 3-channel nonius interpolation.

### MAGNETIC LINEAR / ROTARY ENCODER

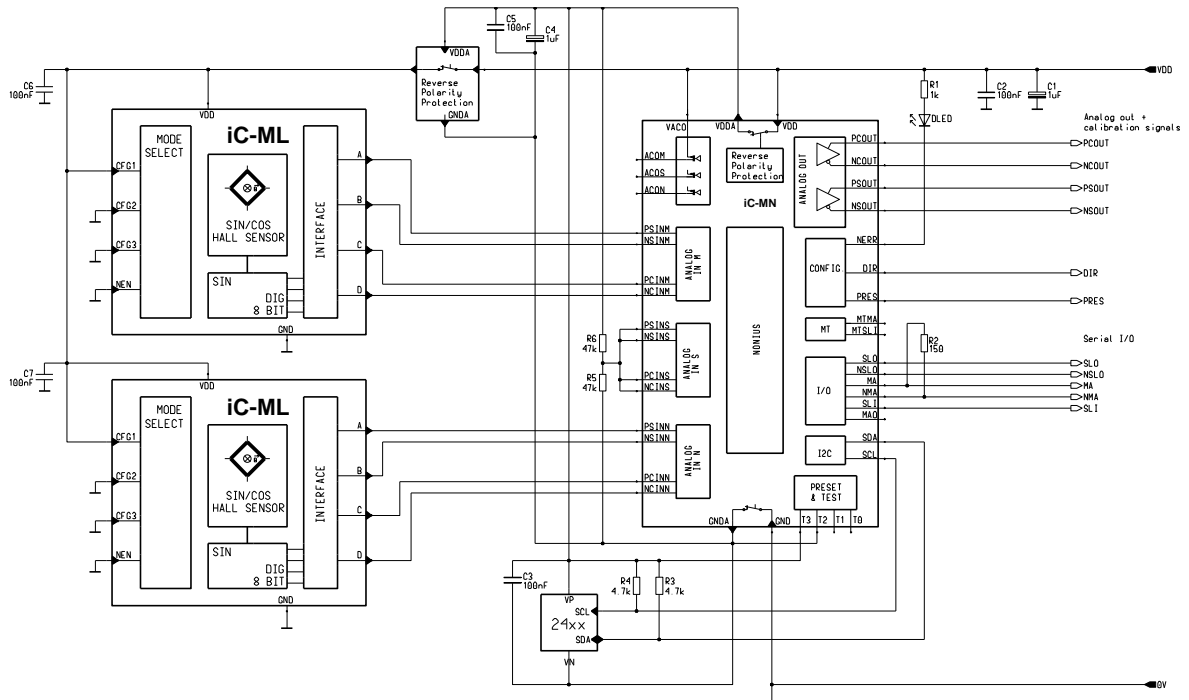


Figure 2: Application circuit of iC-MN with two iC-ML for magnetic linear / rotary encoders based on Hall sensors featuring 2-channel nonius interpolation.

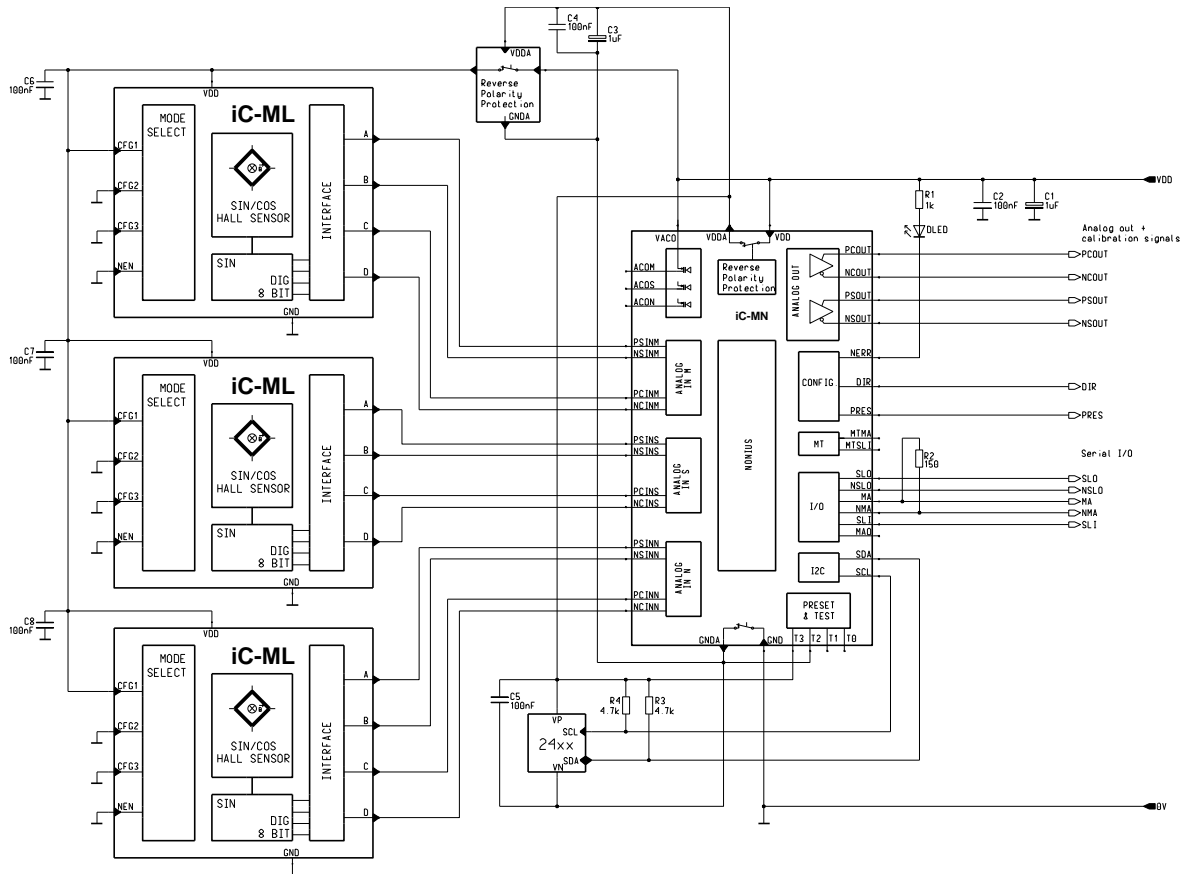


Figure 3: Application circuit of iC-MN with three iC-ML for magnetic linear / rotary encoders based on Hall sensors featuring 3-channel nonius interpolation.

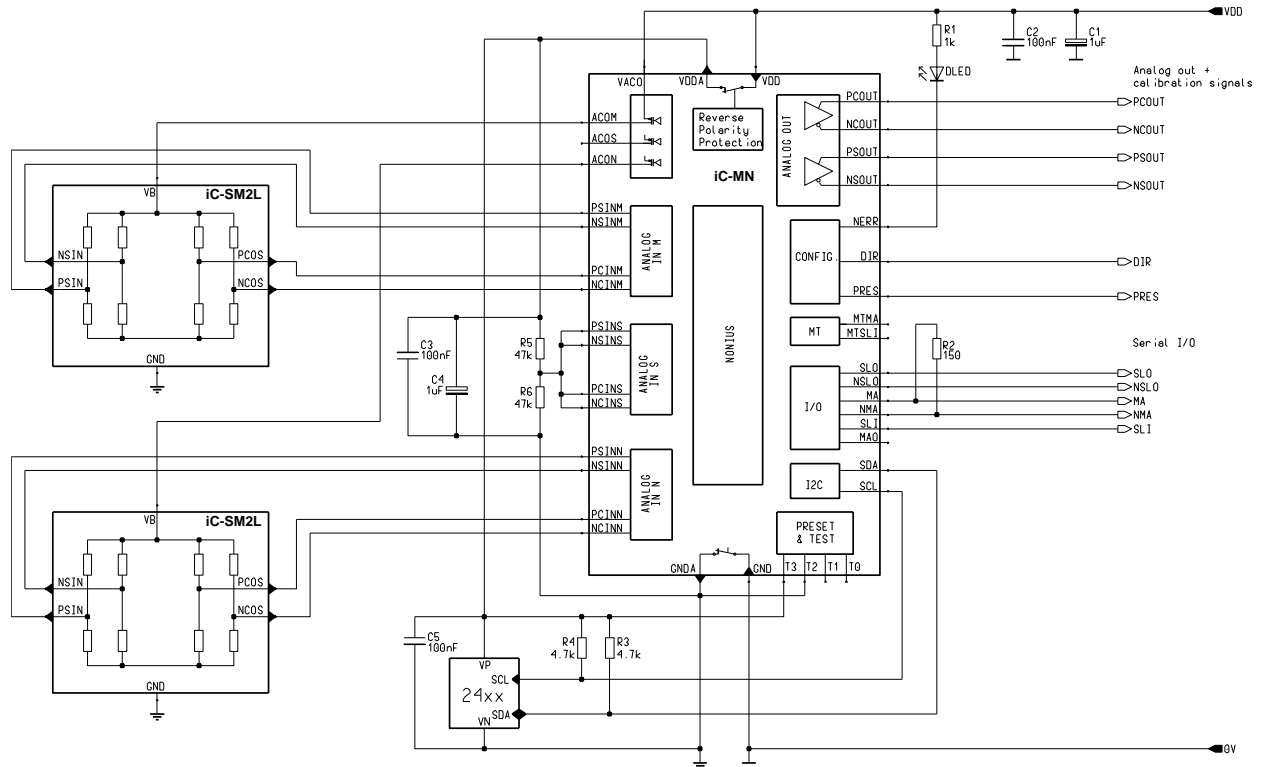


Figure 4: Application circuit of iC-MN with two iC-SM2L (similar iC-SM5L) for magnetic linear / rotary encoders based on magnetoresistive sensors featuring 2-channel nonius.



# iC-MN AN5

## APPLICATION CIRCUIT EXAMPLES



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### ADDITIONAL APPLICATION HINTS

To protect the EEPROM against a reversed power supply voltage it is connected to the integrated supply switch (pins VDDA and GNDA). The EEPROM specifications and absolute maximum ratings should comply to the pin voltages of VDDA, SCL and SDA during startup and operation. A protective circuit may be advisable depending on the EEPROM model.

### REVISION HISTORY

Rev	Notes	Pages affected
A1	Initial version	
A2	Added 'ADDITIONAL APPLICATION HINTS'	6

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