# IM3-40B, IM3-80B | Binary input units, 4 channels and 8 channels

EAN code
IM3-40B: 8595188132312
IM3-80B: 8595188132329

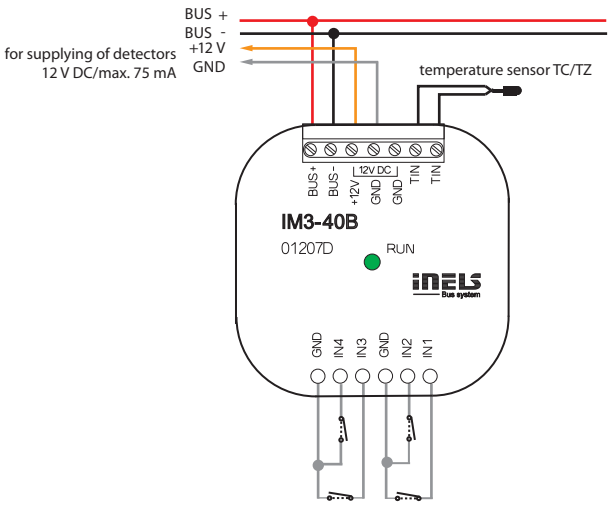
| Technical parameters | IM3-40B | IM3-80B |
|---|---|---|
| **Inputs** | | |
| Input: | 4x* IN1, IN2** | 8x* IN1- IN5** |
| Max. frequency pulse reading: | 20 Hz | |
| Temperature measuring: | yes, input for external thermo sensor TC/TZ | |
| Range/accuracy of thermomeasuring: | -20 to +120 °C/0.5 °C from the range | |
| **Outputs** | | |
| Output voltage/current: | 12 V DC/75 mA, for supplying EZS sensors | |
| **Communication** | | |
| Installation BUS: | BUS | |
| Status indication unit: | green LED RUN | |
| **Power supply** | | |
| Supply voltage/tolerance: | 27 V DC, -20/+10 % | |
| Dissipated power: | max. 1 W | |
| Rated current: | 20 mA (at 27 V DC), from BUS | |
| Rated current of unit for full load on output 12 V DC: | 60 mA | 100 mA |
| **Connection** | | |
| Terminal: | 0.5-1 mm² | |
| Inputs: | 6x conductors CY length 90 mm | x |
| **Operating conditions** | | |
| Operating temperature: | -20 to +55 °C | |
| Storing temperature: | -30 to +70 °C | |
| Protection degree: | IP30 | |
| Overvoltage category: | II. | |
| Pollution degree: | 2 | |
| Operating position: | any | |
| Installation: | into installation box | |
| **Dimensions and weight** | | |
| Dimensions: | 49 x 49 x 13 mm | |
| Weight: | 32 g | 27 g |

* NO or NC against GND(-)
** are balanced inputs

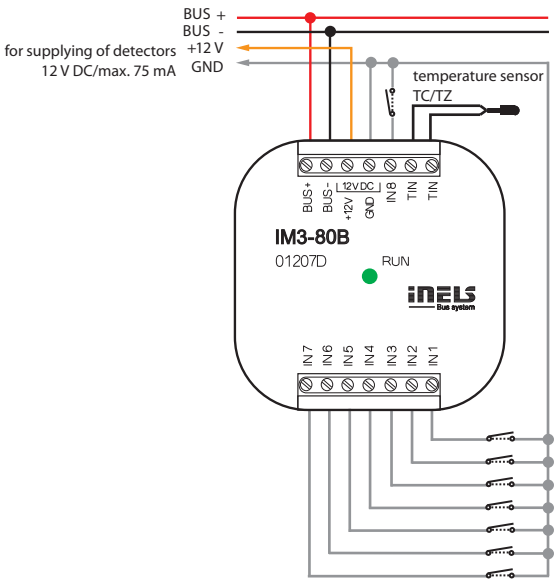
- Binary input units IM3-40B and IM3-80B are used for connection of 4 or 8 devices with potential-less contacts (switches, buttons, switches of other design, PIR detectors, fire and gas detectors, etc.).
- Part of the inputs can be used as a balanced for alarm detectors:
  - IM3-40B – inputs IN1, IN2
  - IM3-80B – inputs IN1 – IN5
- Contacts of external devices connected to the inputs of the unit can be NO or NC - input parameters are configured in the software iDM3.
- Within the internal ESS configured in the iDM3 software, inputs must be set to balance or double balance.
- The units generate a supply voltage of 12 V DC/75 mA for powering external intrusion detectors, so they can power PIR detectors, fire and gas detectors.
- Active use 12 V DC output for powering detectors increases the nominal consumption of units from BUS (see technical data).
- The units can be used for counting pulses of energy meters with pulse output.
- The units are equipped with a temperature input for connecting an external two-wire temperature sensor TC/TZ (see accessories).
- IM3-40B, IM3-80B in case type B are designed for mounting into a installation box.

## Connection

IM3-40B

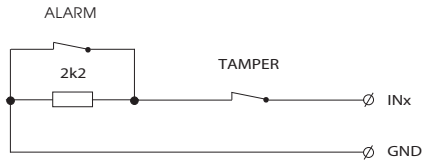


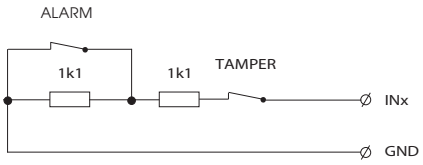

IM3-80B




## Balanced input

Simple:




Double: