



## KL5152 | 2-channel incremental encoder interface

The KL5152 Bus Terminal is an interface with 24 V inputs for the direct connection of incremental encoders. A 16 bit counter with a quadrature decoder and a 16 bit latch for the zero pulse can be read, set or enabled. The KL5152 indicates the logical state of the signals via LEDs. The signal inputs use 0 V as the reference potential and are electrically isolated from the K-bus.

| Technical data                     | KL5152   KS5152   |
|------------------------------------|---|
| Technology                         | incremental encoder interface 24 V DC, EN 61131-2, type 1, "0": < 5 V DC, "1": > 15 V DC, typ. 5 mA |
| Number of channels                 | 2 incremental encoders  |
| Encoder connection                 | A1, B1, A2, B2, 24 V  |
| Sensor inputs                      | 2   |
| Encoder operating voltage          | 24 V DC   |
| Encoder output current             | –   |
| Counter                            | 32 bit, binary  |
| Limit frequency                    | 400,000 increments/s (with 4-fold evaluation)   |
| Quadrature decoder                 | 4-fold evaluation   |
| Zero-pulse latch                   | –   |
| Commands                           | read  |
| Power supply                       | 24 V DC (-15 %/+20 %)   |
| Supply voltage                     | 24 V DC (-15 %/+20 %)   |
| Current consumption power contacts | –   |
| Current consumption K-bus          | typ. 40 mA  |
| Bit width in the process image     | input/output: 2 x 32 bit data, 2 x 8 bit control/status   |
| Weight                             | approx. 50 g  |
| Operating/storage temperature      | 0...+55 °C/-25...+85 °C   |
| Relative humidity                  | 95 %, no condensation   |
| Vibration/shock resistance         | conforms to EN 60068-2-6/EN 60068-2-27  |
| EMC immunity/emission              | conforms to EN 61000-6-2/EN 61000-6-4   |
| Protect. class/installation pos.   | IP 20/variable  |
| Pluggable wiring                   | for all KSxxxx Bus Terminals  |
| Approvals                          | CE, UL, Ex  |