

8 Technical details

| General | |
|--|--------------------------------|
| Approvals | CE, FCC, IC, TÜV, cULus Listed |
| Sensor's mode of operation | Transponder |
| Transponder | |
| Energy supply to transponder | passive (battery free) |
| Frequency band | 125 kHz |
| Electrical data | |
| Supply voltage | |
| Voltage | 24 V |
| Kind | DC |
| Voltage tolerance | -15 %/+10 % |
| Output of external power supply (DC) at no load | 1 W |
| Residual ripple DC | 20 % |
| Duty cycle | 100 % |
| Status indicator | LED |
| Inputs | |
| Number | 3 |
| Signal level at "0" | -3 - +5 V DC |
| Signal level at "1" | 15 - 30 V DC |
| Voltage at inputs | 24 V DC |
| Input current range | 2 mA |
| Galvanic isolation | No |
| Semiconductor outputs | |
| Overall performance ext. loading, semiconductor | 9 W |
| Number of positive-switching single-pole semiconductor outputs | 13 |
| Switching capability | |
| Voltage | 24 V |
| Current | 50 mA |
| Signal level at "1" | UB - 0.5 VDC |
| Residual current at "0" | 0,4 mA |
| Short circuit-proof | yes |
| Times | |
| Switch-on delay | |
| after UB is applied | 1 s |
| Supply interruption before de-energisation | 20 ms |
| Switchover delay t1 | 50 ms |
| Operating time button 1 ... 4 | 50 ms ... 5 s |
| Operating time, service button | 5 s ... 10 s |
| Environmental data | |
| Climatic suitability | DIN IEC 60068-2-3 |

| Environmental data | |
|---|---|
| Ambient temperature | |
| Temperature range | -20 - 60 °C |
| Storage temperature | |
| Temperature range | -25 - 70 °C |
| Climatic suitability | |
| In accordance with the standard | EN 60068-2-78 |
| Humidity | 95 % r. h. at 40 °C |
| EMC | EN 60947-5-1 |
| Vibration | |
| In accordance with the standard | EN 60068-2-6 |
| Frequency | 10 - 55 Hz |
| Amplitude | 0,35 mm |
| Airgap creepage | |
| In accordance with the standard | EN 60664-1 |
| Overvoltage category | II |
| Pollution degree | 2 |
| Rated insulation voltage | 60 V |
| Rated impulse withstand voltage | 0,8 kV |
| Protection type | |
| Mounting area (e.g. control cabinet) | IP65 |
| Housing | IP20 |
| Terminals | IP20 |
| Mechanical data | |
| Operating distances | |
| Typical operating distance So | 5 mm |
| Max. cable length | 1000 m |
| Material | |
| Bottom | ST + 10µ Zn |
| Front | ABS |
| Connection type | Spring-loaded terminal, plug-in, screw terminal, plug-in |
| Conductor cross section with screw terminals | |
| 1 core flexible | 0,25 - 1,5 mm², 28 - 16 AWG |
| Max. torque setting for fixing screws | 0,3 Nm |
| Torque setting with screw terminals | 0,25 Nm |
| Conductor cross section with spring-loaded terminals: | |
| Flexible with/without crimp connector | 0,2 - 2,5 mm², 24 - 12 AWG |
| Spring-loaded terminals: Terminal points per connection | 1 |
| Stripping length with spring-loaded terminals | 9 mm |
| Dimensions | |
| Height | 55 mm |
| Width | 98 mm |
| Depth | 43 mm |
| Weight | 160 g |