


## Data sheet

### SM 222, ECO (222-1BH30)

#### Technical data

|   |   |
|---|---|
| <b>Order no.</b>  | <b>222-1BH30</b>  |
| Type  | SM 222, ECO   |
| <b>General information</b>                                    |   |
| Note  | -   |
| Features  | 16 outputs<br>Output current 0.5 A  |
| <b>Current consumption/power loss</b>                         |   |
| Current consumption from backplane bus                        | 120 mA  |
| Power loss  | 3.5 W   |
| <b>Technical data digital outputs</b>                         |   |
| Number of outputs   | 16  |
| Cable length, shielded  | 1000 m  |
| Cable length, unshielded                                      | 600 m   |
| Rated load voltage  | DC 20.4...28.8 V  |
| Current consumption from load voltage L+ (without load)       | 10 mA   |
| Total current per group, horizontal configuration, 40°C       | 8 A   |
| Total current per group, horizontal configuration, 60°C       | 8 A   |
| Total current per group, vertical configuration               | 8 A   |
| Output current at signal "1", rated value                     | 0.5 A   |
| Output delay of "0" to "1"                                    | max. 100 µs   |
| Output delay of "1" to "0"                                    | max. 350 µs   |
| Minimum load current  | -   |
| Lamp load   | 5 W   |
| Parallel switching of outputs for redundant control of a load | not possible  |
| Parallel switching of outputs for increased power             | not possible  |
| Actuation of digital input                                    |  |
| Switching frequency with resistive load                       | max. 1000 Hz  |
| Switching frequency with inductive load                       | max. 0.5 Hz   |
| Switching frequency on lamp load                              | max. 10 Hz  |
| Internal limitation of inductive shut-off voltage             | L+ (-52 V)  |
| Short-circuit protection of output                            | yes, electronic   |
| Trigger level   | 1 A   |
| Number of operating cycle of relay outputs                    | -   |
| Switching capacity of contacts                                | -   |
| Output data size  | 2 Byte  |
| <b>Status information, alarms, diagnostics</b>                |   |
| Status display  | green LED per channel   |
| Interrupts  | no  |
| Process alarm   | no  |
| Diagnostic interrupt  | no  |

|                                  |                     |
|----------------------------------|---------------------|
| Diagnostic functions             | no                  |
| Diagnostics information read-out | none                |
| Supply voltage display           | green LED per group |
| Group error display              | red SF LED          |
| Channel error display            | none                |

### Isolation

|                                    |          |
|------------------------------------|----------|
| Between channels                   | -        |
| Between channels of groups to      | 16       |
| Between channels and backplane bus | ✓        |
| Insulation tested with             | DC 500 V |

### Datasizes

|                  |   |
|------------------|---|
| Input bytes      | 0 |
| Output bytes     | 2 |
| Parameter bytes  | 0 |
| Diagnostic bytes | 0 |

### Housing

|          |                    |
|----------|--------------------|
| Material | PPE / PA 6.6       |
| Mounting | Profile rail 35 mm |

### Mechanical data

|                    |                         |
|--------------------|-------------------------|
| Dimensions (WxHxD) | 25.4 mm x 76 mm x 88 mm |
| Weight             | 90 g                    |

### Environmental conditions

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | 0 °C to 60 °C   |
| Storage temperature   | -25 °C to 70 °C |

### Certifications

|                     |     |
|---------------------|-----|
| UL508 certification | yes |
|---------------------|-----|