

Control Unit Type 8514

switch panel housing version,
with/without pulse extension and running-time limitation

8514



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Description

The Type 8514 control unit serves the purposes of power supply, remote control, function monitoring, and switch-position reporting on switch drive motors based on the 3-lead principle (inwards lead, outwards lead, and return lead). Its standard version (part no. 310226) does not have any pulse extension of its own. The running-time limitation (part no. 310221) switches off after the pulse extension phase has finished even with 4-lead systems (with an automatic stop mechanism), so it is possible to reverse or switch again at once if a blockage occurs after the time has elapsed. The pulse extension time is 10 seconds at the standard setting but can be altered to any setting from 1 second to 15 seconds.

A motor voltage of DC 48V, 60V, 110V, or AC 230V may be selected. The current may amount to up to DC 0,5 A (DC 110V) to AC 5A, irrespective of the motor drive. The unit is designed for a control voltage of DC 24V.

The motor voltage is connected to the Terminals 1 and 2. A jumper is to be installed from Terminal 2 to one of the Terminals 5 to 8, in dependence on the motor voltage. Proper connection must be ensured in any case, otherwise malfunctions may result, or the unit may fail.



The control voltage of DC 24V is connected to the Terminals 13(L) and 14(L+). The Terminals 3(On) and 4(Off) are the positive output terminals for the motor drive. The negative terminal of the motor is not controlled via the unit and must, therefore, be directly connected with the motor (from Terminal 1, for example).

The Terminals 9(Off) and 10(On) are to be connected with the negative potential of position feedback (motor voltage). The current status of the drive motor is indicated by the respective LEDs allocated thereto, and is transmitted by the potential-free contacts 15, 16, 17(On) and 18, 19, 20(Off).

A remote-control system may be used in order to trigger a switching command at a level of 24-Volt at the Terminals 11(On) and 12(Off).

Technical data

| | |
|----------------------------|---|
| Dimensions | housing W/H/D = 136x90x125 mm front frame W/H/D = 146x98x35 mm |
| Housing | Noryl, ABS |
| Fastening | 2 clamps |
| Safety category | Housing IP 40; Terminals IP 10 |
| Ambient temperature | -20°C to +60°C |
| Output relays | DC 48V, 2A; DC 60V, 1A DC 110V, 0.5A; AC 230V, 5A |
| Command buttons | 2 (for "On" and "Off") |
| Contact connection | max. AC 250V, 5.0A |
| Indicators | 2 light-emitting diodes Colours: red, yellow, green or to customer's specification (standard: "On" = red, "Off" = green) 1 zero-potential switch contact for "On", 1 for "Off" U ≤ AC 250V; I ≤ 2A; P ≤ 500 VA |
| Remote control connections | |
| Consumption | approx. 250 mW |
| Voltage | DC 24V (19-34V) |
| Timings | Impulse extension = running time limitation Standard: approx. 10 seconds (adjustable, 1-15 seconds) |
| Test voltage | Field side against indicator contact and Field side against control side 4 kV _{eff} (1 minute) |

Ordering Information

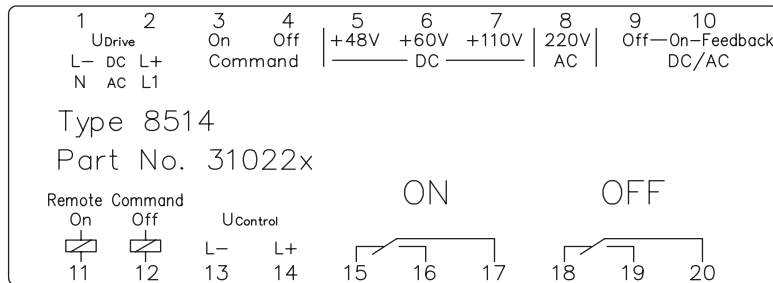
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|--|-----------|
| Type | Order No. |
| 8514 Control unit for motors DC 48-110V, AC 230V, remote-control voltage DC 24V switch panel housing version | |
| without pulse extension and running-time limitation | 310226 |
| with pulse extension and running-time limitation | 310221 |

Other versions are available on request.

8514

DC/AC-Motordrive controller 8514

back side view



Part.no 310221: DC/AC-version with impuls extension and running time limitation

Part.no 310226: DC/AC-version without impuls extension and running time limitation

installation diagram

