

# Control unit Type 8514 for SIEMENS 8WL-6202 drive without aux. contacts

# 8514



## Description

The type 8513 initiator unit is used for the power supply, remote control, function monitoring and switch position reporting of switch drive motors and operates on the 3- or 4-core cable principle (depending on the version).

The runtime limiting switches the drive off after the end of the pulse lengthening phase, even with 4-wire systems (with self-holding), so that it is possible to reverse or reswitch immediately after the end of the time in the event of blocking. The pulse lengthening time is 10 s by default, but can be set subsequently from 1 s to 15 s.

Versions for C 24, 60, 110 V are available for actuation by means of remote control units.

The control unit is connected directly to the power supply of the drive, switch, etc. (select the built-in fuse accordingly). The switch remote drive and its connecting cables are connected to the control unit (terminal 1,(2),3+4). Function monitoring and position reporting are done without additional limit switches via the motor winding.

The drive can be switched on and off with the "ON" and "OFF" buttons.

The following applies for units with pulse lengthening and runtime limiting: A timing relay (by default, 10 s) ensures that the command is long enough (pulse lengthening), even if the buttons are only pressed briefly, for the actuation of drives without their

own self-holding function. The timing relay limits actuation by interrupting the neutral conductor in the case of drives that have their own self-holding. At the same time, it prevents a contradictory command from being given while the drive is running. The timing relay ensures that there is no positioning and monitoring display during the running time. This means that there is not an "ambiguous display" while the drive is running.

Correct functioning, the reaching of the limit position, is indicated by the LED. The desired colour of LED can be specified when ordering. (Supplied by default): Red = ON; Green = OFF)

The respective zero-potential contacts are available for further signalling and reporting. (Terminals 11/ 12/ 13 for "ON", terminals 14/ 15/ 16 for "OFF").

An "ON" control pulse (+ or -) can be set up at terminal 18 and an "OFF" control pulse at terminal 19 (+ or -) for use in remote control. The reference potential (M) is to be set up jointly for both inputs at terminal 20. Two built-in relays implement the control pulse (> 100 ms) in galvanically separated form into the respective "ON" or "OFF" switching command.

The clearance between the initiator unit and the drive, switch, etc., is determined by the voltage drop that is permissible for the part to be initiated and not by the initiator unit.

Special configurations on request.

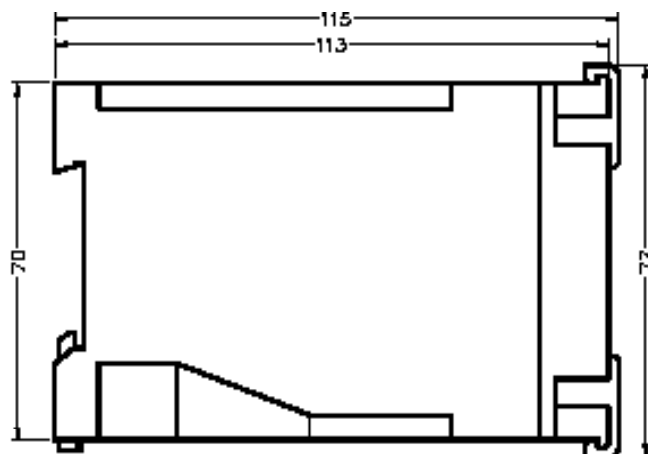
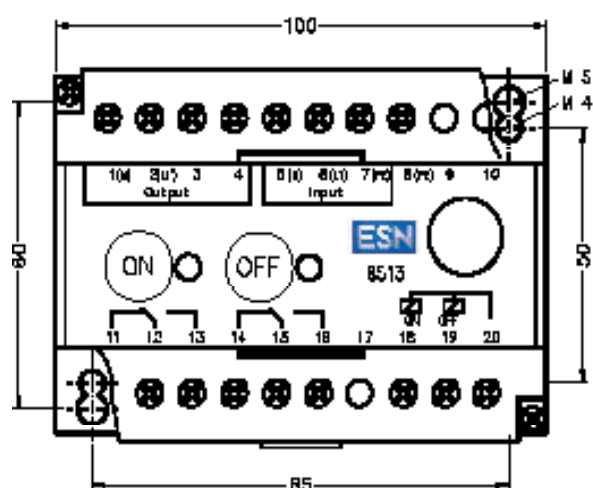


## Technical data

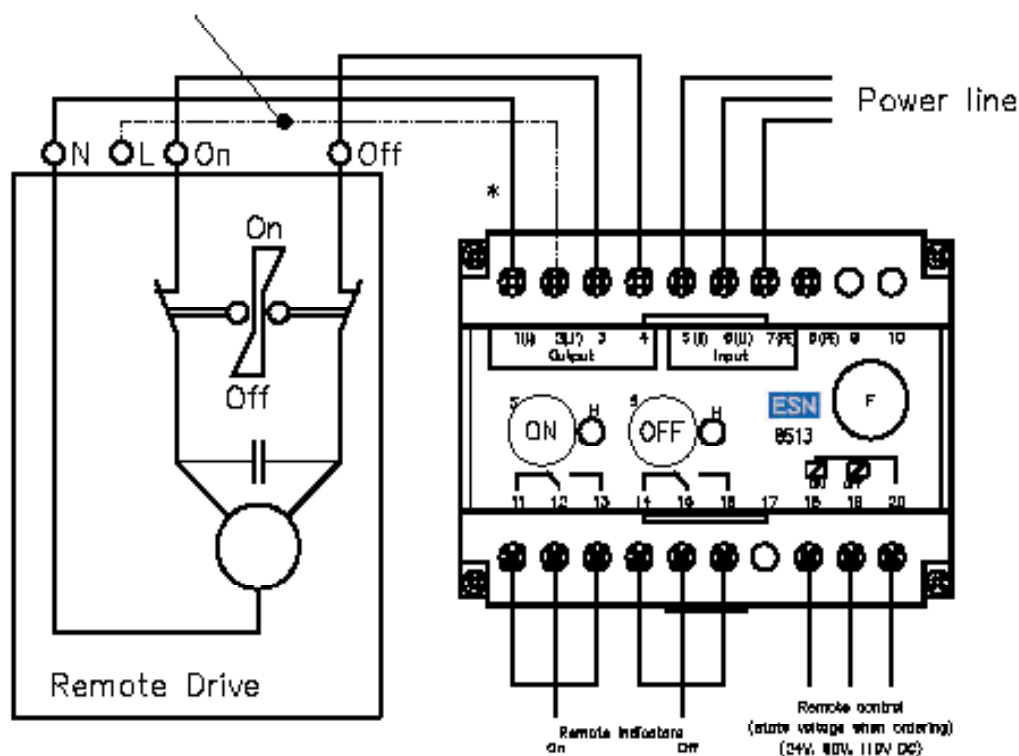
<b>Dimensions</b>	WxHxD 100/70/115 mm
<b>Housing</b>	ABS / polystyrene
<b>Attachment</b>	2 holes to be drilled as per the drilling template, standard carrying rail as per DIN EN 50022
<b>Type of protection</b>	Housing: IP 40; terminals: IP 10
<b>Ambient temperature</b>	-20°C to +60°C
<b>Fuse</b>	as required (as standard 6.3 A)
<b>Control buttons</b>	2 (for On and Off)
<b>Contact rating</b>	max. AC 250 V; 5.0 A
<b>Message</b>	2 LEDs, colours: red, yellow, green according to the order details (default: "ON" = red, "OFF" = green) per 1 zero-potential changeover contact for "On" and "Off" respectively U ≤ AC 250 V; I ≤ 2 A; P ≤ 500 VA
<b>Remote control connection</b>	
<b>Current drawn</b>	approx. 250 mW
<b>Voltage</b>	<b>DC 24 V (19 - 34 V)</b> → 8513 01 / → 8513 11 <b>DC 60 V (38 - 86 V)</b> → 8513 02 / → 8513 12 <b>DC 110 V (88 - 120 V)</b> → 8513 03 / → 8513 13
<b>Times</b>	Pulse lengthening = runtime limiting default: approx. 10 s (can be set from 1 s - 15 s)
<b>Test voltage</b>	Field side against reporting contacts and field side against actuation side 4 kV <sub>eff</sub> (1 minute) → 8513 0-
<b>4-core cable drive (without pulse lengthening and runtime limiting)</b>	→ 8513 1-
<b>3-core cable drive (with pulse lengthening and runtime limiting)</b>	→ 8513 1-

## Ordering information

Type	Part No.
8513 01	310200
8513 11	310201
8513 02	310202
8513 12	310203
8513 03	310204
8513 13	310205



Install this connection only  
at 4-wire drives.



H: LED  
red, yellow, green  
as ordered  
standard: on – red  
off – green

S: Button  
F: Fuse

\* For deactivation  
the running-time limitation  
connect terminal 5 instead  
of terminal 1