

**KALEJA GmbH**  
**D-73553 Alfdorf**

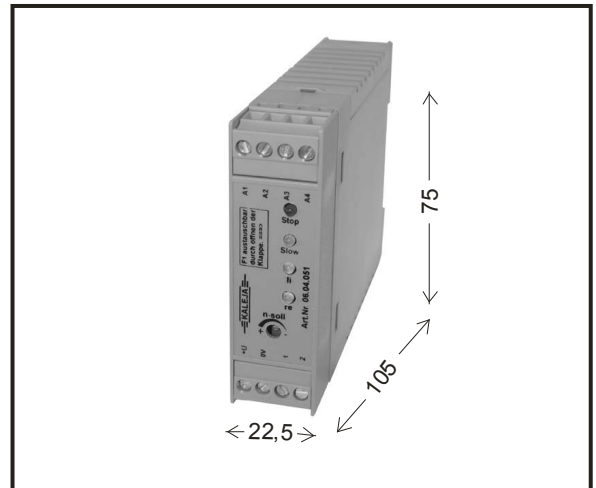
**Motor/speed control for  
brush sticking direct  
current motor 24VDC**

Implementation for switching current  
up to 3A. With speed control  
2 quadranten operation

To switch full speed to adjustable speed  
(Tr.1)

To snap onto DIN - rail EN 50022

**Construction width: 22,5mm**

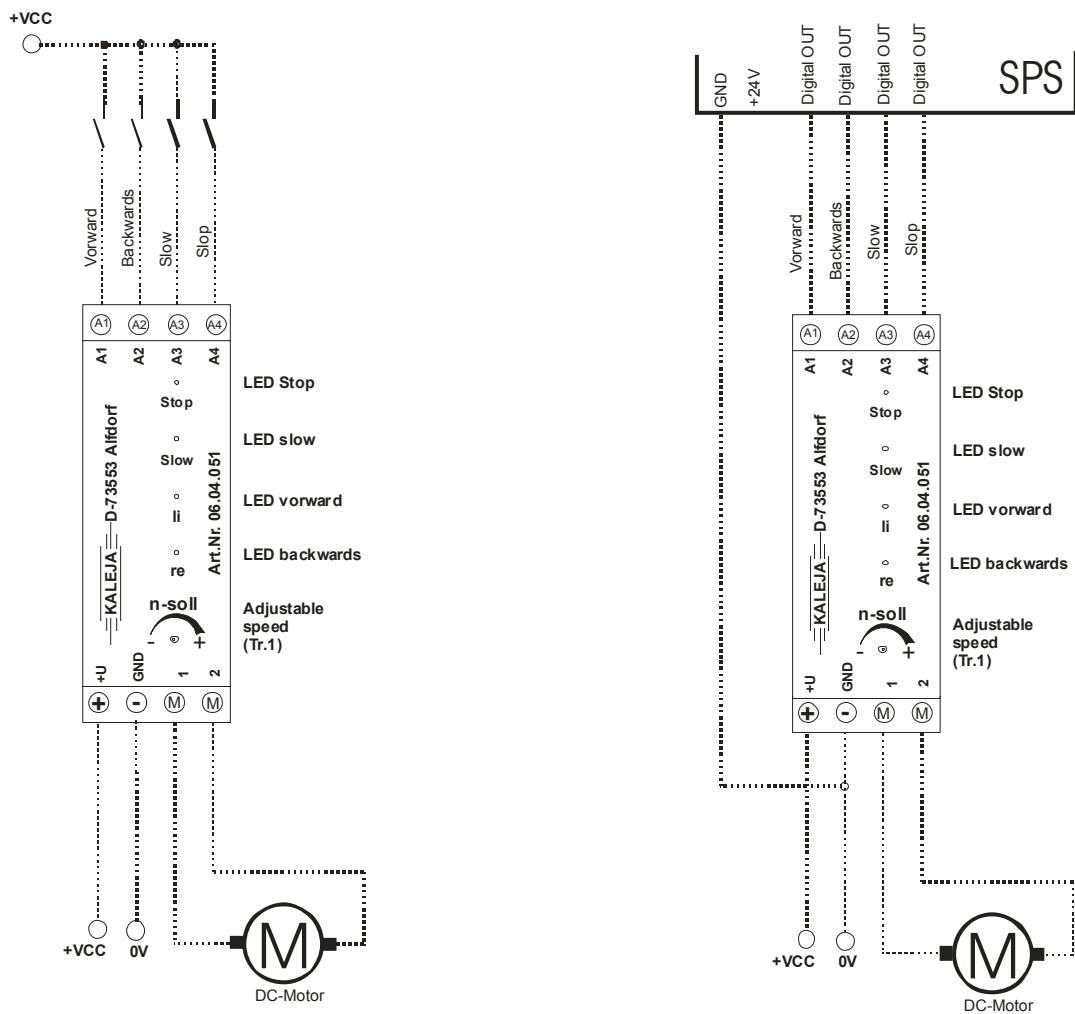


<b>Short designation / type</b>	<b>Rated voltage: 24VDC</b> M-MZ-4-30
<b>Art. - No.</b>	<b>06.04.051</b>
<b>Technical data: input circuit</b>	
Rated voltage / threshold voltage	24 VDC
Range of rated voltage min. / max.	15V to 35VDC
Input current during rated voltage	10mA
Status indicator	LED 3mm
<b>Technical data: output circuit</b>	
<b>MOS-FET</b>	
Range of switching voltage / motor voltage	19V to 35VDC
Max. Permanent load current	3A- 5A je nach Schaltfrequenz
Current limitation max.	10 A
Time os switch-on current rise	80 - 400 µs
Speed control Tr.1	0 bis max. Speed
<b>Other data</b>	
Ambient temperature range	-20°C to + 50°C
Absence of vibration a/r (10...500Hz)	> 20 / 5
Overload protection, short-circuit-proof, temp. Monitoring	no / no / no
DIN VDE-determinations	VDE 0110, 0160 in parts
Position of installation / mounting	Can be snapped, addable
Mode of connection: screw terminal / pluggable	Single wire 4mm <sup>2</sup> , fine wire. 2,5mm <sup>2</sup>
Dimensions: W x D x H	22,5mm x 75mm x 105mm

## Description

The M-MZ-4-30 module is a 2 quadrant motor control system for 24VDC motors. It ensure switching ON / OFF and the contrlled driving and braking of motors. To switch full speed to adjustable speed.

## Electrical connection and controls



Direction of Travel	Polarity	
Vorward (A1)	M1 +	M2 -
Backwards (A2)	M1 -	M2 +