

### 33 25004D.. Product Specification





**33 25004D..** (except D05) with round knob

33 25004D05 with dead-man button

Joy-stick controllers are electric setpoint transmitters for open-loop and closed-loop control systems with a positive mid-point position. They are used for the electronic control of electrical and hydraulic motions. A single joy-stick controller can control two motions simultaneously by moving the control lever in the appropriate direction within the maximum possible deflection range. This does not apply to the bidirectional models (single-axis) or models with a cross gate (available to order).

Joy-stick controllers are primarily intended for use on fixed control desks, transporer trucks and order picking/ stacker trucks, etc.

Joy-stick controllers 33 25004D51/D52 are intended for use as setpoint transmitters for current regulators 33 43501A00/A05 and 33 43502A01.

#### Also available to order:

Models with cross gate, guide attachment and non-standard number of microswitches and microswitch functions. Joy-Stick Controllers Universal or bidirectional deflection

With or without dead-man button

### CE

These components are neither electronic nor electric appliances in the sense of the EMC regulation 89/336/EWG, but are only designed for mounting into other machines or installations, and they are not intended for end-customers.

Subject to design modifications without prior notice. Please note ordering data !

## **Technical Data**

Applicable to all 33 25004D models			Applicable to type 33 25004D		D00 D03 D05	D51 D52
Deflection angle from positive mid-point position (	° al Ncm	± 30	Potentiometer ± 10% rating at 40^C Operating voltage U <sub>B</sub> Slider current (max.)	kΩ W V mA	5 2 max. 80 V <sub>ms</sub> 100	2 x 1.8 2 10 32 V— —
as a function of deflection angle	NGIII	0.00.0	Output current (max.) Resolution referred to change in resistance	mA %		30
Service life Ambient temperature range Degree of protection to DIN 40 050	cycles °C IP	> 500 000 	Change in resistance from end stop to mid-point	/ 0	0.55 (1.95 2.5 3.05)	1.8 (1.8 0 1.8
(according to installation) Rating of microswitch contacts	IP A/V1~ A/V—	43 5/220 0.4/25	Output voltage U <sub>A</sub> Stabilized voltage U <sub>st</sub> with bridge	V V	<u>U</u> ± 0.11 x U	2 x 0 U <sub>st</sub> 8
Rating of NO contact on dead-man button (C05 only)	A/V1~ A/V—	1/110 0.2/24	without bridge	V	_	15

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#### Ordering example

Joy-Stick 33 25004D

00, 03, 05, 51, 52 corresponding to the requested model

0300/W

# 33 25004D . .

Model	Switching functions	Potentiometer functions	
Type 33 25004D00, round knob 2 axes, universal deflection <sup>1</sup> ) 2 Potentiometers 5 kW/2 W 4 microswitches plug-type terminals 2.8 x 0.5 mm <sup>2</sup> ) <sup>1</sup> ) With cross gate (4 deflections) to order 2) To DIN 46 244		$ \begin{array}{c} 0^{+U}\\ 0^{-} \\ 0^{-} \\ 0^{-} \\ 0^{-} \\ 0^{-} \\ 0^{-} \\ 1$	
<b>Type 33 25004D03</b> , round Knob 1 axis, bidirectional deflection 1 potentiometer 5 kΩ/2 W 2 microswitches connecting terminals		$ \begin{array}{c}                                     $	
<b>Type 33 25004D05</b> , long knob with dead-man button 2 axes, universal deflection <sup>1</sup> ) 2 potentiometers 5 kΩ/2 W plug-type terminals 2.8 x 0.5 mm <sup>2</sup>		$\int_{0}^{+U} U_{A} = \frac{U}{2} \pm 0,085 \times U$	
<b>Type 33 25004D51</b> , round knob stabilized voltage U <sub>st</sub> with bridge 8 V without bridge 15 V 1 axis, bidirectional deflection 1 potentiometer 2 x 1.8 k $\Omega/2$ W 2 microswitches plug-type terminals 2.8 x 0.5 mm <sup>2</sup> ) 1 voltage regulator with solder tag terminals			
<b>Type 33 25004D52</b> , round knob stabilized voltage U <sub>st</sub> with bridge 8 V without bridge 15 V 2 axes, universal deflection <sup>1</sup> ) 2 potentiometers $2 \times 1.8 \text{ k}\Omega/2 \text{ W}$ 4 microswitches plug-type terminals $2.8 \times 0.5 \text{ mm}^2$ ) 2 voltage regulators with solder tag terminals <sup>1</sup> ) With cross gate (4 deflections) to order <sup>2</sup> ) To DIN 46 244			

