

# Positioning drive MSIA – FlexiDrive Profibus-DP

## features

- positioning drive / Profibus-DP
- absolute multi-turn position detection
- power output nom. 60 W
- 4 programmable inputs
- run records programmable
- separated supply for communication and power
- planetary gear



## technical data

voltage supply	24 VDC ±10 %	
max. supply current	8 A	
operation mode	S1 <sup>2)</sup>	S3 <sup>3)</sup>
current nom.	1,7 A	5,0 A
power output nom. <sup>1)</sup>	26 W	60 W
rotational speed nom. <sup>1)</sup>	4'150 rpm	3'060 rpm
torque nom. <sup>1) 4)</sup>	0,06 Nm	0,2 Nm
positioning resolution <sup>1)</sup>	0,02°	
positioning accuracy <sup>1)</sup>	±1°	
repeatability <sup>1)</sup>	0,3°	
revolutions <sup>1)</sup>	262'144	
operating hours <sup>1)</sup>	20'000 h	
material	Gehäuse: Aluminium	
max. shaft load <sup>1)</sup>	axial: 40 N	radial: 400 N

<sup>1)</sup> without gear

<sup>2)</sup> S1 continuous duty (DIN EN 60034-1)

specifications at ambient temperature +40 °C

## communication

fieldbus	Profibus-DP
profile	Profidrive Nr. 3 version 2.0
max. baud rate	12 MBit/s

## order designation

<b>MSIA 53P2P</b>	<b>11-N52</b>			
				gear ratio
				000 (without gear)
				007
				025
				046
				169
				gear variant
				<b>K0</b> without gear
				<b>P5</b> planetary gear
				protection class
				<b>C</b> IP 54
				<b>E</b> IP 65
				connection direction
				<b>A</b> axial
				<b>R</b> radial

<sup>3)</sup> S3 intermittent duty, cycle 1 min, power on duration 25%

<sup>4)</sup> at operation factor = 1

<sup>5)</sup> only with leak-proof D-Sub connector

## ambient conditions

max. protection class	IP 65 <sup>5)</sup>
ambient temperature	-15...+40 °C
overtemp. protection	yes
isolation class	B (+130 °C, DIN EN 60034-1)

## Profibus-DP

### motor-gear-combinations

gear ratio	torque nom. (Nm)		rotational speed (rpm)		shaft load (N)		weight (kg)	length L (mm)		revolutions	transmission play (°)	
	exact	S1 <sup>2)</sup>	S3 <sup>3)</sup>	S1 <sup>2)</sup>	S3 <sup>3)</sup>	axial		radial	axial			radial
000	1	0,06	0,20	4150	3060	40	400	1,0	132	127	262'144	—
007	6,75	0,32	1,02	615	453	60	200	1,2	188	183	38'836	0,7
025	25	1,13	3,53	166	122	100	320	1,4	202	197	10'482	0,75
046	45,6	2,05	6,42	91	67	100	320	1,4	202	197	5'754	0,75
169	168,8	7,09	22,22	25	22	150	450	1,6	216	211	1'553	0,8

Additional motor - gear combinations are available on request.

### assignment connector 9-pin D-Sub male

pin nr.	signal	description
1	+VsE	+24 VDC voltage supply electronics
2	Input 1	programmable input
3	Input 2	programmable input
4	Input 3	programmable input
5	Input 4	programmable input
6	0 VME	0 VDC voltage supply motor/electronics
7	0 VME	0 VDC voltage supply motor/electronics
8	+VsM	+24 VDC voltage supply motor
9	+VsM	+24 VDC voltage supply motor

### assignment connector 5-pin M12 male

pin nr.	signal	description
1	+VsDP	VP Profibus +5 VDC
2	A line green	cable green / Profibus-DP
3	0 VDP	DGND Profibus
4	B line red	cable red / Profibus-DP
5	n.c.	

B-coded

### accessoires

CD-ROM with GSD-/EDS-/XML-files and manuals	part nr. 147362
D-Sub connector (female)	part nr. 153493
D-Sub connector (female) leak-proof	part nr. 163483

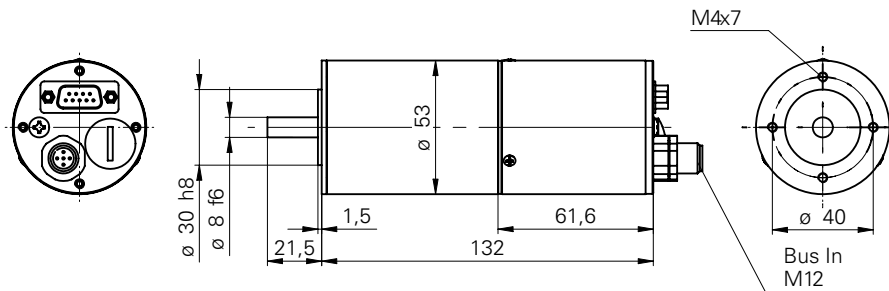
refer to fieldbus accessories, page 5.19

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## dimensions

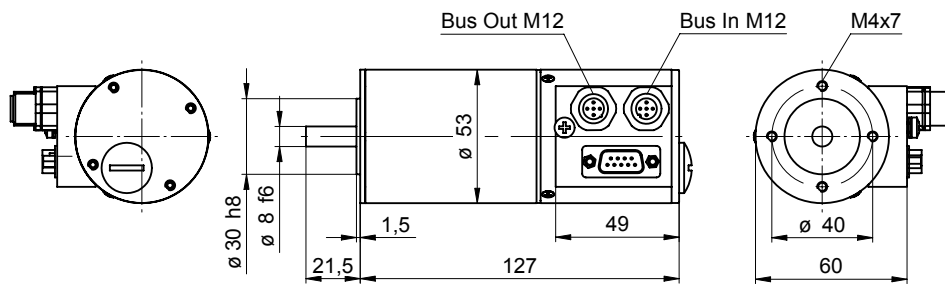
**K0** without gear

**A** connector axial



**K0** without gear

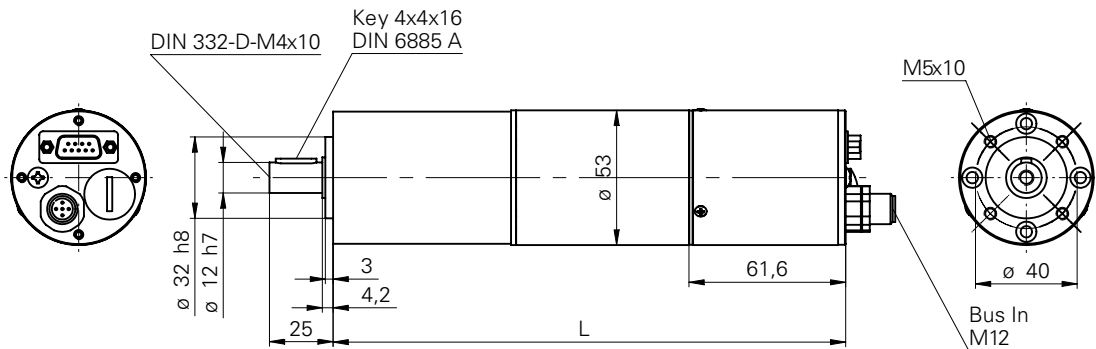
**R** connector radial



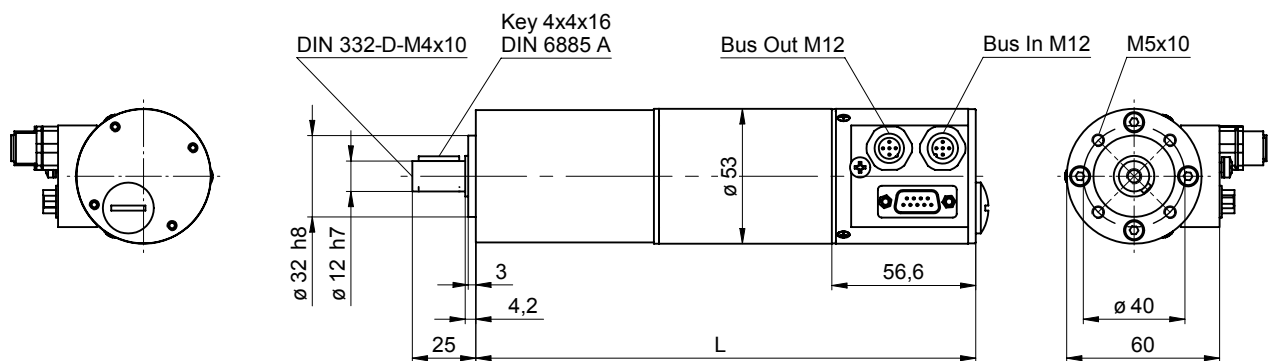
**Profibus-DP**

**dimensions**

- P5** planetary gear
- A** connector axial



- P5** planetary gear
- R** connector radial



**hint**

switches for bus address adjustment are located behind removable cover