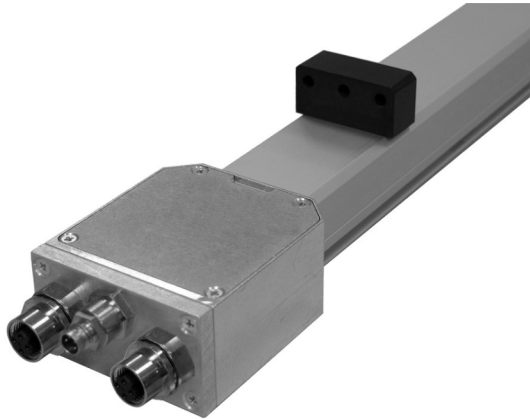


LMP_30*1000 PB

R 0,005mm 2x5pinM12 1x4pinM8

Order-#: 322-00072

6.12.2018 / 010201011011030199



Stock photo



Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Measures linear movements
- _ Position value - Adjustment
- _ Profile housing
- _ Simple integration
- _ Wear-free detection

Technical data for 322-00072

RESOLUTION	0,005 MM
MEASURING LENGTH	1.000,00 MM
INTERFACE	PROFIBUS DP
CODE	BINARY
OUTPUT LEVEL	RS485
SUPPLY VOLTAGE	19-27V
CONNECTOR TYPE	1X4P.M8-CONNECTOR
	2X5P.M12-ST./BU. (B-COD.)
CONNECTOR-POSITION	AXIAL
MATING PLUG	NO
ROD LENGTH	1.121,00 MM
MAGNET TYPE	WITHOUT MAGNET
TEMPERATURE RANGE	0-70°C
OPTION-LA	12MB,PNO-PROFIL
	CLASS.2
PINOUT NO.	TR-ELA-TI-DGB-0061
DRAWING NO.	04-K322-V0009
FIRMWARE NO	5832
DOCUMENTATION NO	DOKUMENTE

Subject to change.

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 78647 Trossingen
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 info@tr-electronic.de
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LMP_30*1000 PB

R 0,005mm 2x5pinM12 1x4pinM8

Order-#: 322-00072

6.12.2018 / 010201011011030199

General data for K-LMP30-PB-1

Supply	
- Supply voltage	24 VDC, -20...+10 %
Current consumption no load	<= 150 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...4000 mm, in steps
Resolution	0.001 mm, 3 magnets
	0.05 mm, 30 magnets
Linearity deviation	± 0.10 mm <= 1500 mm
	± 0.15 mm > 1500 mm
Reproducibility	0.005 mm
Hysteresis	0.02 mm <= 1500 mm
	0.1 mm > 1500 mm
Characteristics - Validity	using original TR Magnets
Temperature coefficient	< 8 µm/°C <= 500 mm
	< 15 ppm/°C FS > 500 mm
- FS:	Full-Scale
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Aluminium extruded profile
Magnet	T1-S3818
	other on request
PROFIBUS - Interface	
- PROFIBUS-DP V0	IEC 61158, IEC 61784
- PNO Encoder-Profile	Class 1 and 2
Transmission rate	
- Specific value	9.6...12000 kbit/s
Parameter/Function, changeable	Resolution
	Preset parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
	TR-Soft: TRWinProg
Cycle time internal, <= 1.00 m	1.00 ms
Cycle time internal, <= 1.50 m	1.50 ms
Cycle time internal, <= 2.00 m	2.00 ms
Cycle time internal, <= 2.50 m	2.50 ms
Cycle time internal, > 2.50 m	3.00 ms

Subject to change.

LMP_30*1000 PB

R 0,005mm 2x5pinM12 1x4pinM8

Order-#: 322-00072

6.12.2018 / 010201011011030199

General data for K-LMP30-PB-1 continuation

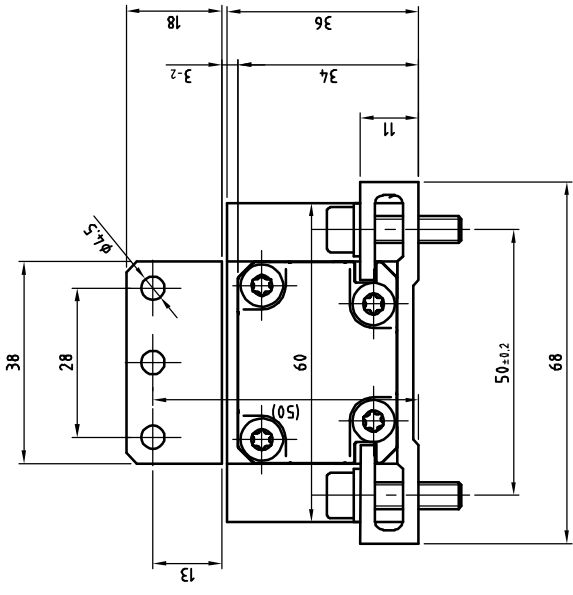
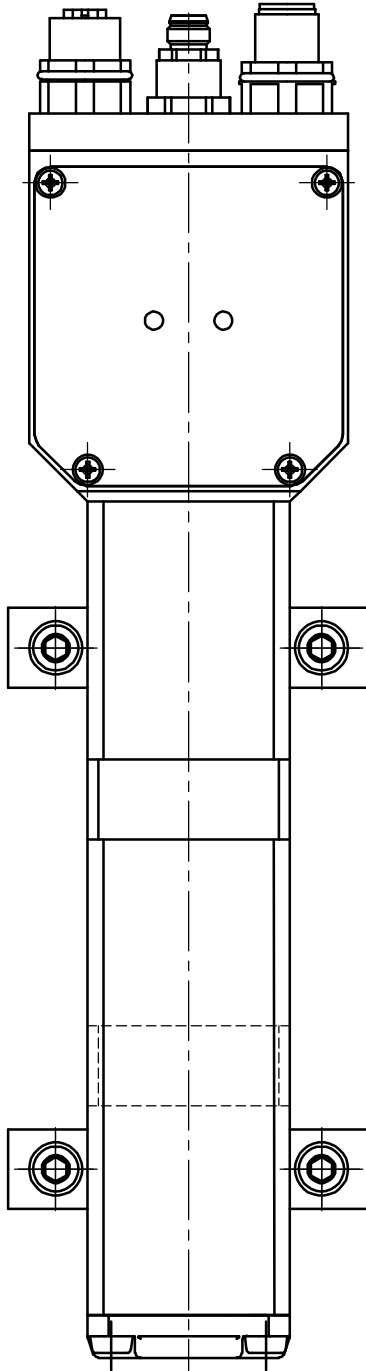
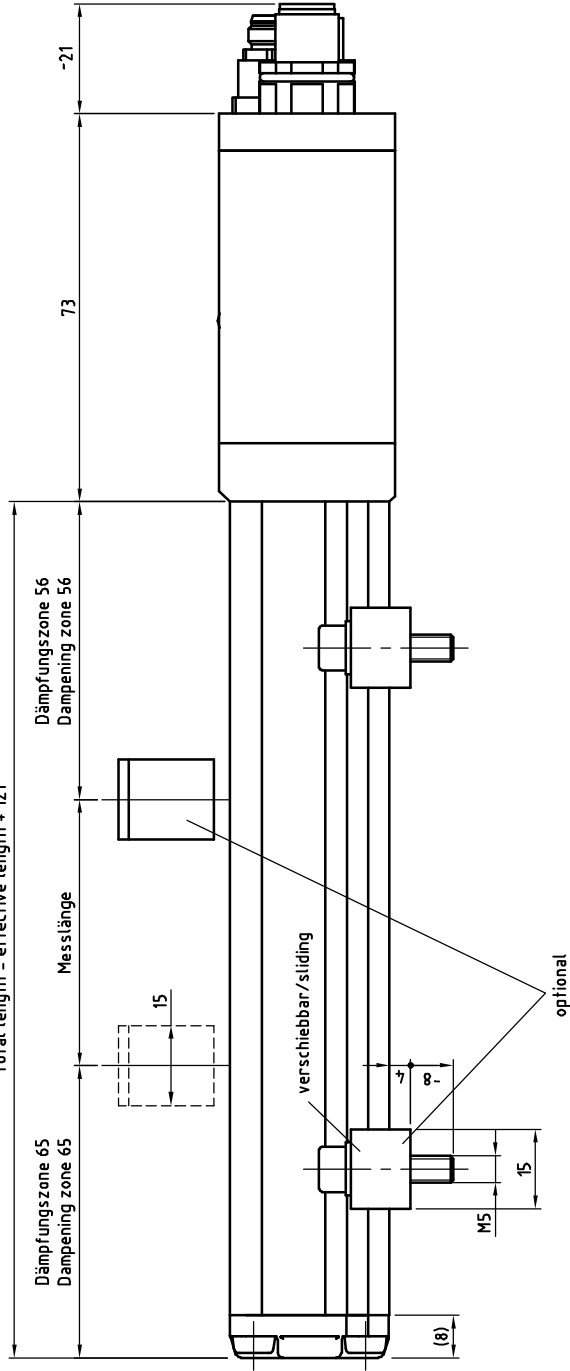
Optional Magnets	
- Number of magnets	3, 30
- Magnet - Minimum distance	80 mm

Environmental data


Vibration	
- Specific value	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	
- Specific value	$\leq 1000 \text{ m/s}^2$
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0...+70 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65
Stray magnetic field	< 3 mT
Measuring reference	Measuring plane

Subject to change.

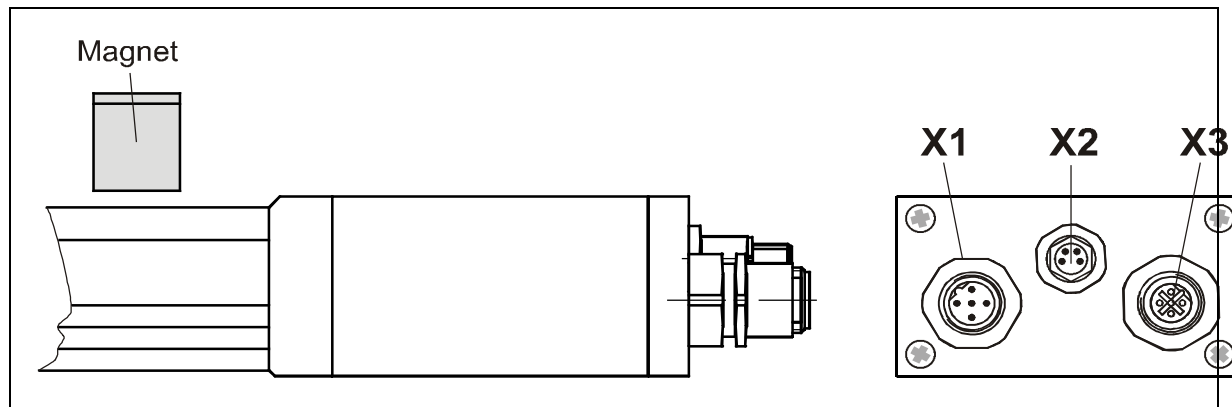
Srabiänge = Messlänge + 121
 Total length = effective length + 121

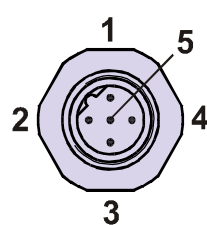



Artikel-Nr. und Steckerbelegung: siehe Datenblatt
 Article-No. and pin connections: see data sheet

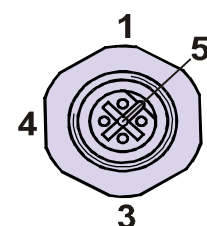
 TR Electronic GmbH Eglishalde 6 78647 Trossingen Telefon 07425/228-0		Maßstab: 1:1 DIN A3 Projekt-Nr.:	Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid
		LMP-30, Profibus-DP 2xM12, 1xM8	
www.tr-electronic.de DXF+Info: info@tr-electronic.de		Zeichnungs-Nr./Drawing-No.: 04-K322-V0009	Blatt 1
1 Deckel Zust. Änderung	26.11.10 Nemezz Datum Name	Erstellt 29.11.2005 STIER Name Bearb. 26.11.2010 NEMEZZ Datum Gepr. Norm.	Blatt 1

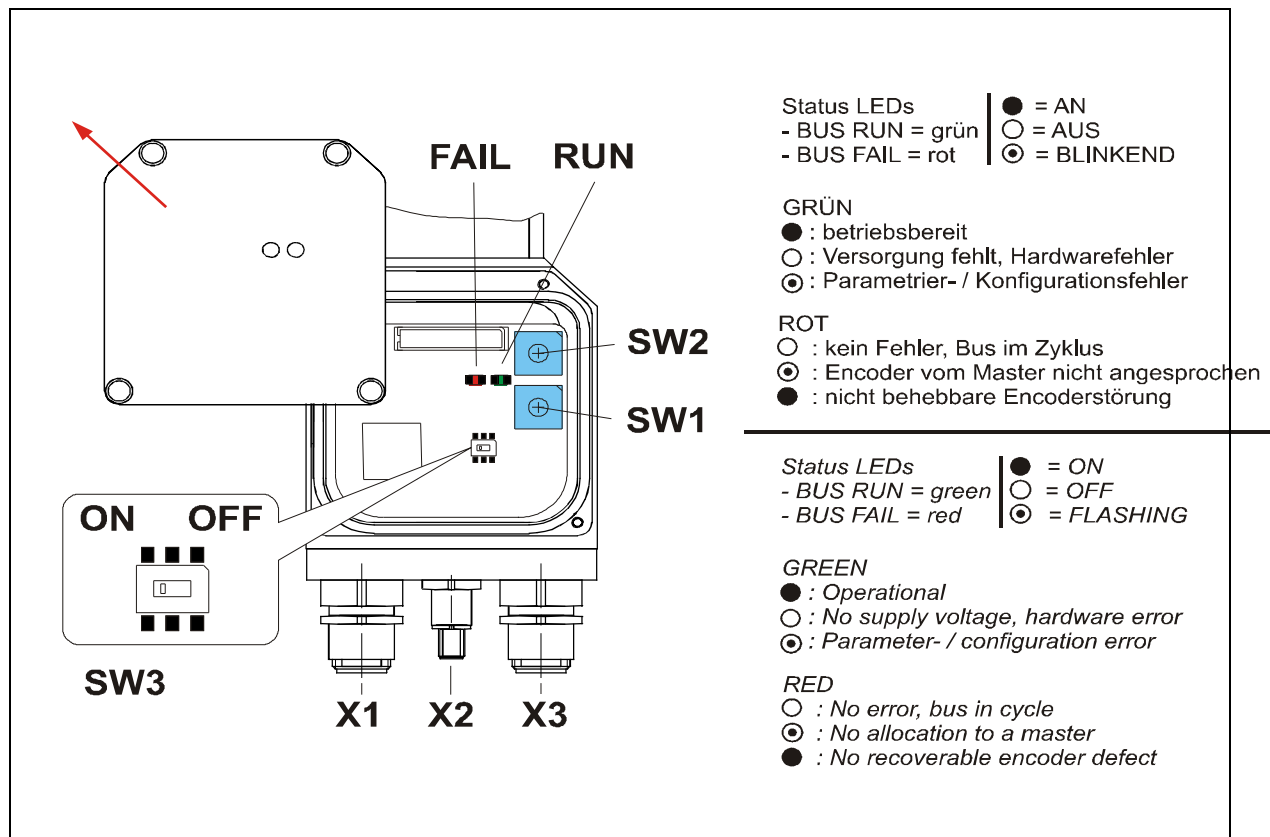
LMP-30 PROFIBUS-DP (2 x M12, 1 x M8)



X1	Flanschstecker / Male socket (M12x1-5 pol. B-coded)		
1	N.C.	PROFIBUS_IN	Steckseite / Mating Face 
2	Profibus Data A		
3	N.C.		
4	Profibus Data B		
5	N.C.		
Gewinde / Thread	Schirmung / Shield		

X2	Flanschstecker / Male socket (M8x1-4 pol.)		
1	19 – 27 V DC braun / brown	Versorgungsspannung / TRWinProg (Servicezwecke) oder Anschluss einer externen Anzeige TA-MINI / Supply Voltage / TRWinProg (for service only) or connection of an external display TA-MINI	Steckseite / Mating Face 
2	TRWinProg + weiß / white		
3	GND, 0V blau / blue		
4	TRWinProg – schwarz / black		

X3	Flanschdose / Female socket (M12x1-5 pol. B-coded)		
1	VP, +5 V DC	Profibus_OUT bzw. Terminierung zwischen Pin 1 und Pin 3	Steckseite / Mating Face 
2	Profibus Data A		
3	DGND		
4	Profibus Data B	Profibus_OUT or termination between Pin 1 and Pin 3	
5	N.C.		
Gewinde / Thread	Schirmung / Shield		



Profibus Address

- SW1 = 10⁰, SW2 = 10¹
- Addresses: 1 – 99

Termination

- Gerät = letzter Teilnehmer: SW3 = ON (nachfolgender Bus wird abgekoppelt)
- nachfolgender Teilnehmer folgt: SW3 = OFF

Um eine höhere Dichtigkeit zu erreichen, kann der Bus-Abschluss auch mit einem M12 Bus-Abschluss-Stecker realisiert werden. Der Stecker kann von TR-Electronic bezogen werden, Art.-Nr.: 40803-40005 (M12-Stecker, B-kodiert, 220 Ω).

- Device = last slave: SW3 = ON (following bus is uncoupled)
- further slave is following: SW3 = OFF

To reach a better tightness, the bus termination can also be realised by a M12 bus termination plug. The plug can be requested from TR-Electronic, Art.-No.: 40803-40005 (M12 male socket, B-coded, 220 Ω).