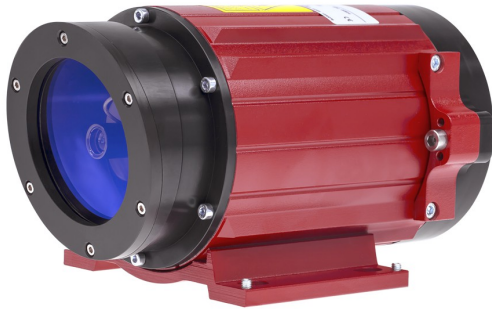


Laser Measuring Device LE200 - SSI

[Click Here](#) for Quick Delivery Stock Options



Advantages

- Customer-specific solutions
- Distances 125/170/195/240m
- Flexible programming
- Further interfaces available
- Measures linear movements
- Rugged construction
- Wear-free detection



General Data

Characteristics - Validity	Min. operation time > 30 min
Supply	
- Supply voltage	18...27 VDC \pm 5%
Current consumption no load	\leq 350 mA
Integrated heating	
- Equipment	Option
- Nominal voltage	24 VDC \pm 5 %
- Nominal power	48 W
Measuring principle	Phase shift measurement
Measuring length	
- Measuring against	Reflector foil
- Standard measuring range	0.2...125 m
- Range extension 1	170 m
- Range extension 2	195 m
- Range extension 3	240 m
Resolution	0.1 mm physically
Linearity deviation	\pm 3 mm \leq 12 m, absolute
	\pm 5 mm FS, absolute
- FS:	Full-Scale
Reproducibility	\pm 2 mm
Light source	
- Laser diode	Red light

Subject to change.

Laser Measuring Device LE200 - SSI

Ref.: K-LE200-SSI-1

19.05.2020

010203020003010299

General Data continuation

- Wave length λ	670 nm
- Laser protection class	2
- International safety standard	IEC 60825-1
- American safety standard	FDA 21CFR 1040.10 / 1040.11
- American safety standard	observe "Laser-Notice No. 50"
- Radiant power P	≤ 1 mW
Measurand output/refresh rate	1000 Values/s
Integration time	1 ms
SSI - Interface	
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
- SSI-Clock frequency	80...820 kHz
Parameter/Function, changeable	Resolution
	Output code
	Number of data bits
	Error outputs
	Intensity parameter
	Interpolation
	Preset parameter
	SSI-Parameter
	SSI-Output
	Temperature parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	TR-Soft: TRWinProg
External inputs	
- Function input	Preset adjustment
- Function input	Switch-off of the laser diode
- Function input	Error acknowledgement
- Type of parametrization	programmable
- Logic level, LOW	"0" < +2 V, $\leq \pm 35$ V, 5 kOhm
- Logic level, HIGH	"1" > +8 V
- Number of inputs	1
External outputs	
- Status output	Temperature
- Status output	Intensity
- Status output	Hardware

Subject to change.

Laser Measuring Device LE200 - SSI

Ref.: K-LE200-SSI-1
 19.05.2020
 010203020003010299

General Data continuation

- Status output	Speed
- Status output	Position
- Logic level, LOW	"0" < 1 V, <= 100 mA
- Logic level, HIGH	"1" > Supply Voltage – 2 V
- Type of parametrization	programmable
- Number of outputs	1

Environmental conditions

Vibration	
- Specific value	<= 50 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	<= 300 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...+50 °C
- Optional	-30...+50 °C;
Storage temperature, dry	-20...+75 °C
Temperature drift	
	1 ppm/°C <= 125 m
	1 ppm/°C <= 170 m
	1 ppm/°C <= 195 m
	1 ppm/°C <= 240 m
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

Subject to change.

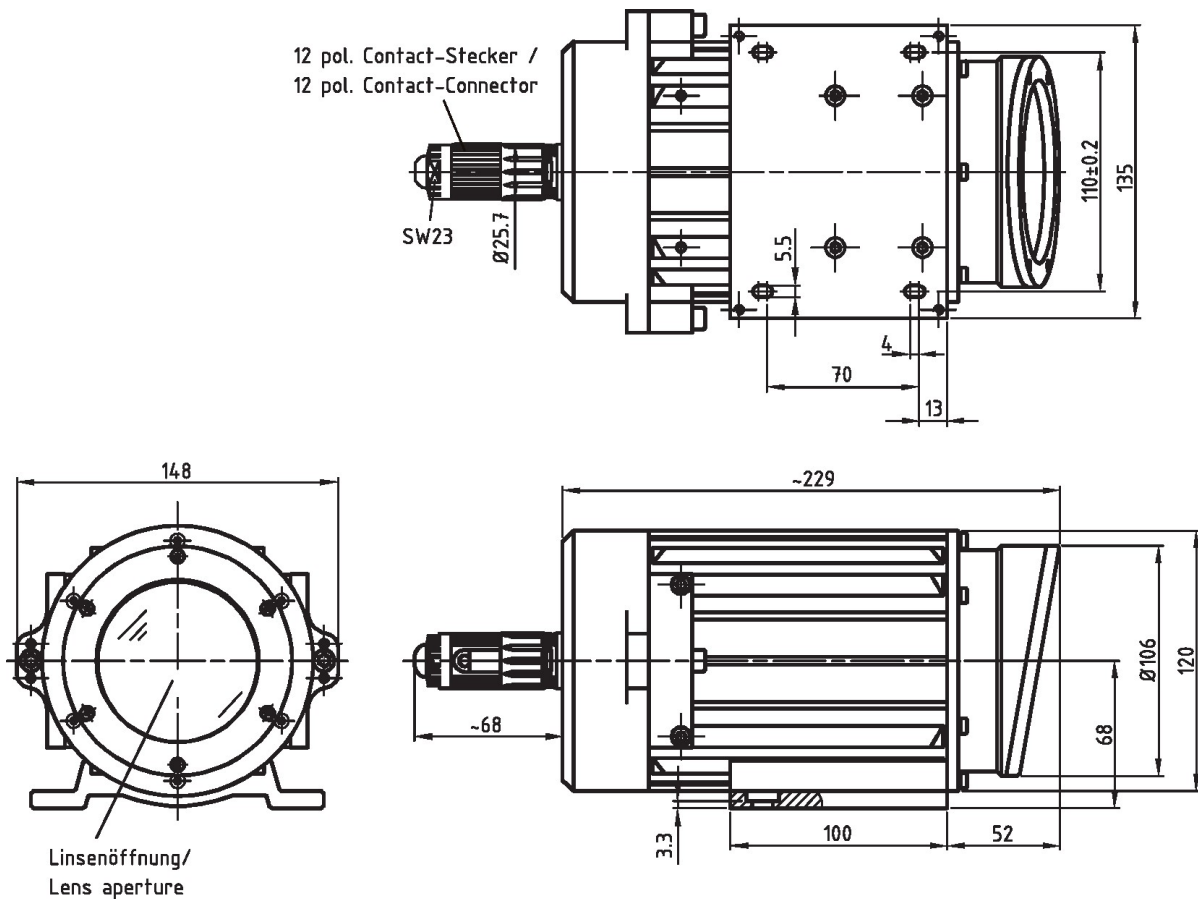
Laser Measuring Device LE200 - SSI

Ref.: K-LE200-SSI-1

19.05.2020

010203020003010299

Dimensional drawing



Subject to change.

Laser Measuring Device LE200 - SSI

Ref.: K-LE200-SSI-1
19.05.2020
010203020003010299

Quick Delivery Stock Options (Click Article Number for Data Sheet)

Article Number	Range	Reflector Included
<u>2200-00002</u>	125M	Yes
<u>2200-01052</u>	170M	Sold Separately - Please contact customercare@treletronic.com

Subject to change.

LE-200 SSI LINEARISIERT

[Click Here](#) to go back to Stock Options

125m



Stock photo

[Click Here](#) for a Quote - customer@tr-electronic.com

Order-#: 2200-00002

Advantages

- Customer-specific solutions
- Distances 125/170/195/240m
- Flexible programming
- Further interfaces available
- Measures linear movements
- Rugged construction
- Wear-free detection



Technical data for 2200-00002

RESOLUTION	1,0
MEASURING RANGE	125M
INTERFACE	SSI
CODE	PROGRAMMABLE
OUTPUT LEVEL	RS485
SUPPLY VOLTAGE	18-27V
CONNECTOR TYPE	CONTACT 12P
CONNECTOR-POSITION	AXIAL
TEMPERATURE RANGE	0-50°C
PROTECTION Class	IP65
LASER PROTECTION CLASS	2
OPTIONS ENC	FULL STROKE LINEARIZED PROGRAMMABLE
REFLECTIVE-FOIL	YES
WATER COOLING	NO
PINOUT NO.	3296
DRAWING NO.	04-K2200-005

Subject to change.

LE-200 SSI LINEARISIERT

125m

Order-#: 2200-00002

14.5.2020 / 010203020002010199

General data for K-LE200-SSI-1

Characteristics - Validity	Min. operation time > 30 min
Supply	
- Supply voltage	18...27 VDC \pm 5%
Current consumption no load	\leq 350 mA
Integrated heating	
- Equipment	Option
- Nominal voltage	24 VDC \pm 5 %
- Nominal power	48 W
Measuring principle	Phase shift measurement
Measuring length	
- Measuring against	Reflector foil
- Standard measuring range	0.2...125 m
- Range extension 1	170 m
- Range extension 2	195 m
- Range extension 3	240 m
Resolution	0.1 mm physically
Linearity deviation	\pm 3 mm \leq 12 m, absolute \pm 5 mm FS, absolute
- FS:	Full-Scale
Reproducibility	\pm 2 mm
Light source	
- Laser diode	Red light
- Wave length λ	670 nm
- Laser protection class	2
- International safety standard	IEC 60825-1
- American safety standard	FDA 21CFR 1040.10 / 1040.11
- American safety standard	observe "Laser-Notice No. 50"
- Radiant power P	\leq 1 mW
Measurand output/refresh rate	1000 Values/s
Integration time	1 ms
SSI - Interface	
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
- SSI-Clock frequency	80...820 kHz
Parameter/Function, changeable	Resolution
	Output code
	Number of data bits
	Error outputs
	Intensity parameter

Subject to change.

LE-200 SSI LINEARISIERT

125m

Order-#: 2200-00002

14.5.2020 / 010203020002010199

General data for K-LE200-SSI-1 continuation

	Interpolation
	Preset parameter
	SSI-Parameter
	SSI-Output
	Temperature parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	TR-Soft: TRWinProg
External inputs	
- Function input	Preset adjustment
- Function input	Switch-off of the laser diode
- Function input	Error acknowledgement
- Type of parametrization	programmable
- Logic level, LOW	"0" < +2 V, <= ±35 V, 5 kOhm
- Logic level, HIGH	"1" > +8 V
- Number of inputs	1
External outputs	
- Status output	Temperature
- Status output	Intensity
- Status output	Hardware
- Status output	Speed
- Status output	Position
- Logic level, LOW	"0" < 1 V, <= 100 mA
- Logic level, HIGH	"1" > Supply Voltage – 2 V
- Type of parametrization	programmable
- Number of outputs	1

Environmental data

Vibration	
- Specific value	<= 50 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	<= 300 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2

Subject to change.

LE-200 SSI LINEARISIERT

125m

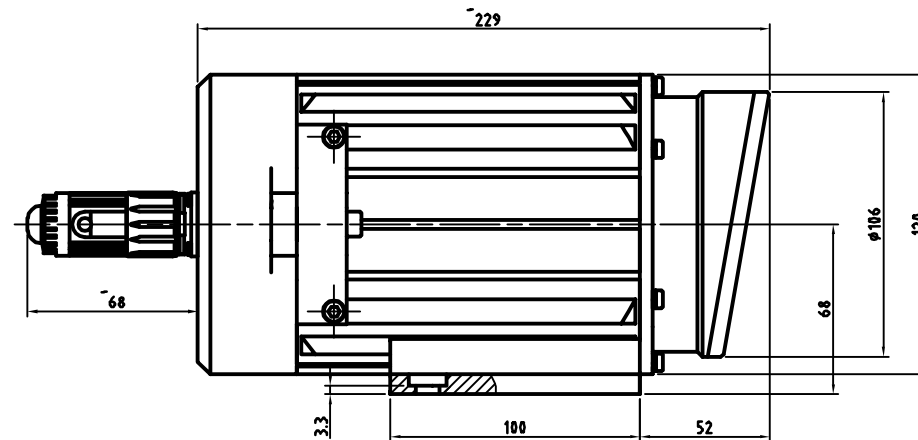
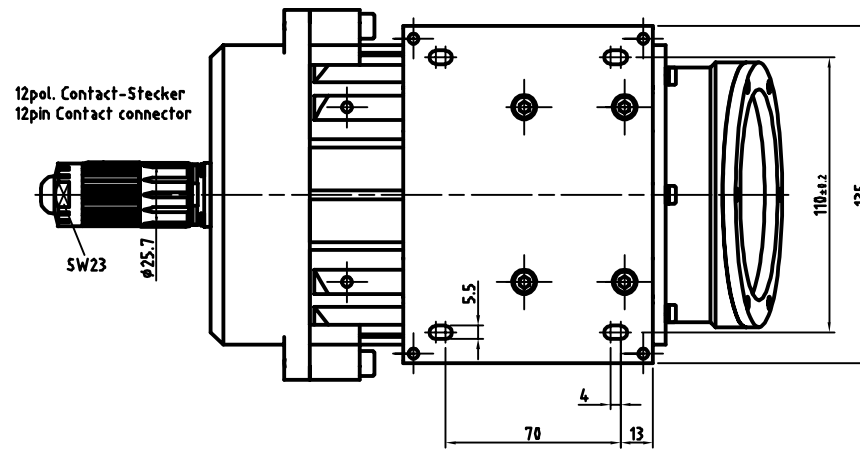
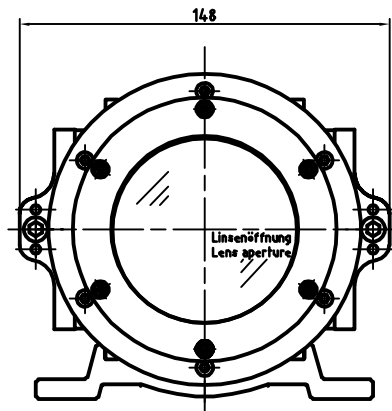
Order-#: 2200-00002

14.5.2020 / 010203020002010199


Environmental data continuation

Transient emissions	DIN EN 61000-6-3
Working temperature - Standard	0...+50 °C
- Optional	-30...+50 °C;
Storage temperature, dry	-20...+75 °C
Temperature drift	1 ppm/°C ≤ 125 m
	1 ppm/°C ≤ 170 m
	1 ppm/°C ≤ 195 m
	1 ppm/°C ≤ 240 m
Relative humidity	98 %, non condensing
Protection class - Standard	IP65

Subject to change.



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 1:2 DIN A3 Projekt-Nr.:	
	Zeichnungs-Nr. nur für diese Ausführung gültig Drawing-No. only for this type valid	
Datum Name Erstellt 08.05.03 Habefler		LE-200
Bearb.		
Gepr.		
Norm		
www.tr-electronic.de DXF+Info: info@tr-electronic.de		Zeichnungs-NR./Drawing-No.:
Zust. Änderung Datum Name		04-K2200-005
		Blatt 1 Bl

Pin assignment

Pin assignment number: 3296

Index:

27.01.2014

Connector name: 12-pol CONTACT

Pin-count: 12

Page: 1/1

Pin	Designation	Description	Level	Driver	NC	Colour
1	SSI_Clock-_IN	Clock input -	RS 422	RS 422		white
2	SSI_Clock+_IN	Clock input +	RS 422	RS 422		brown
3	SSI_DATA+_OUT	Data output +	RS 422	RS 422		green
4	SSI_DATA-_OUT	Data output -	RS 422	RS 422		yellow
5	Ser.Program+_IN/OUT	Ser. programming interface RS485	RS 485	RS 485		gray
6	Ser.Program-_IN/OUT	Ser. programming interface RS485	RS 485	RS 485		pink
7	IN*	Must not be connected				blue
8	Error_OUT	Error message	Supply Voltage	Push Pull		red
9	Progr.-Input	Progr. Function input			0	black
10	not connected					
11	Supply Voltage IN	Supply voltage	18-27V			gray/pink
12	Ground IN	Ground	0V			red/blue

WARNING

'De-energize the system before carrying out wiring work or opening and closing electrical connections !

Short-circuits, voltage peaks, etc. can cause operating failures and uncontrolled operating states, as well as serious personal injuries and damage to property.

Verdrahtungsarbeiten, Öffnen und Schließen von elektrischen Verbindungen nur im spannungslosen Zustand durchführen ! Kurzschlüsse, Spannungsspitzen etc. können zur Fehlfunktion und unkontrollierten Zuständen der Anlage bzw. zu erheblichen Personen- und Sachschäden führen.

LE-200 SSI

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Order No.:2200-01052

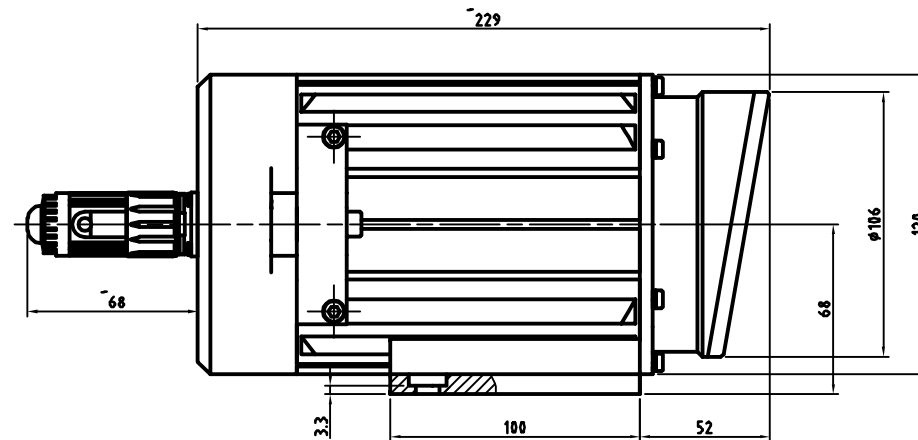
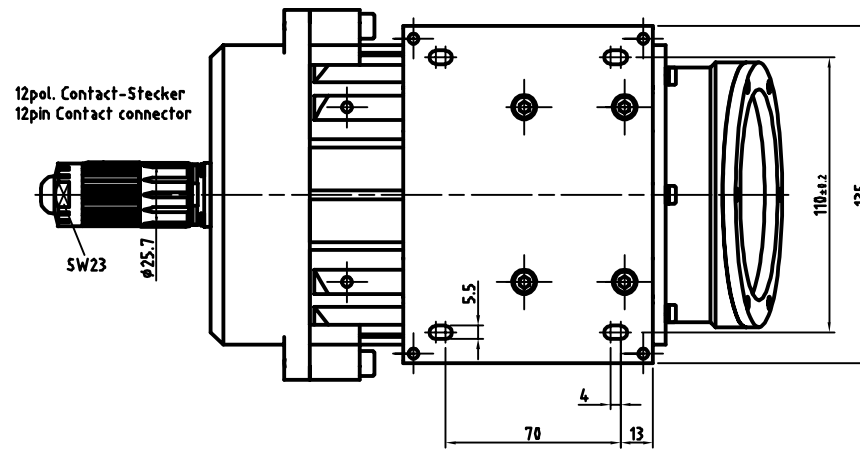
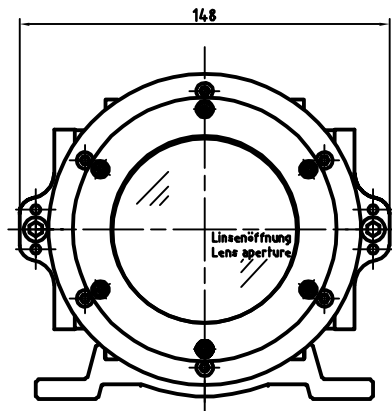
Technical data

MEASURING RANGE	170M
INTERFACE	SSI
OUTPUT LEVEL	RS485
CODE	PROGRAMMABLE
RESOLUTION	1,0
SUPPLY VOLTAGE	18-27V
TEMPERATURE RANGE	0-50°C
PROTECTION Class	IP65
LASER PROTECTION CLASS	2
CONNECTOR TYPE	CONTACT 12P
CONNECTOR-POSITION	AXIAL
PINOUT NO.	ST3296
WATER COOLING	NO
REFLECTIVE-FOIL	NO
OPTIONS ENC	FULL STROKE LINEARIZED
OPTIONS ENC	PROGRAMMABLE
DRAWING NO.	04-K2200-005


GL	Wellenausführung glatt / shaft type cylindrical
FL	Wellenausführung mit Fläche / shaft type with flat surface
N	Wellenausführung mit Nut / shaft type with slot
Hohlw	Hohlwelle / hollow shaft
Klemme	mit Klemmring / with clamping ring
Grundw	Grundwelle / fundamental shaft
SLG	Seillängengeber / cable retractor
ZB	Zentrierbund / centre ring
Tachofl	Tachoflansch / tachometer flange
DAG	DAG-Schutzgehäuse / DAG protective housing
TK	Teilkreis / pitch circle

Subject to change.

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78647 Trossingen
Tel. +49 (0) 7425 228-0
info@tr-electronic.de
www.tr-electronic.de



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 1:2 DIN A3 Projekt-Nr.:											
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<table border="1"> <thead> <tr> <th>Datum</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>Erstellt 08.05.03</td> <td>Häbefler</td> </tr> <tr> <td>Bearb.</td> <td></td> </tr> <tr> <td>Gepr.</td> <td></td> </tr> <tr> <td>Norm</td> <td></td> </tr> </tbody> </table>		Datum	Name	Erstellt 08.05.03	Häbefler	Bearb.		Gepr.		Norm		LE-200
Datum	Name											
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Gepr.												
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www.tr-electronic.de DXF+Info: info@tr-electronic.de												
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		Blatt 1 Bl										

Pin assignment

Pin assignment number: 3296

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Connector name: 12-pol CONTACT

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