Gesamtbedienungsanleitung

Für
IH120V*16384 TTL 2DMS 38H7 KRH

Material Nr.
245-00146

Generiert am
10.11.2026

Enthält Originalbedienungsanleitung

Abb. ähnlich

Dokumentationsabschnitte

Technische Info de IH-120 INK	TR-VCE-TI-D-0650-03.pdf
Konformitätserklärung de/en EU-Konformitätserklärung ECE (EMV+RoHS)	TR-ECE-KE-DGB-0374v08.pdf
Konformitätserklärung de/en UKCA, Konformitätserkl. ECE (EMV+RoHS)	TR-ECE-KE-GB-0375v07.pdf
Technische Daten	

Änderungen vorbehalten.

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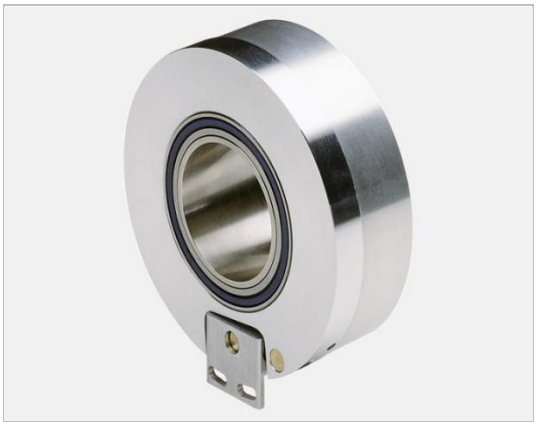
78647 Trossingen
Tel. +49 (0) 7425 228-0
info@tr-electronic.de
www.tr-electronic.de

Inkremental-Encoder IH 120

TR-VCE-TI-D-0650
04/12 Revision 03
010101-01209999-9999



+ Inkremental Schnittstelle
+ Hohlwellen-Encoder für den direkten Anbau auf durchgehende Wellen (Ø 27 ... 55 mm)
+ Strichzahl bis 10.000

Kenndaten

Betriebsspannung	11 - 27 V DC
5 V DC	auf Anfrage
Ausgänge (11-27 V Pegel)	Gegentakt (Push-Pull)
- Belastbarkeit	max. 20 mA
- Inkrementalsignale	K1, K2, invertierbar
- Nullimpuls	K0, 1 x pro Umdrehung, invertierbar
- Max. Ausgangsfrequenz	160 kHz
Ausgänge (5 V Pegel)	Kabeltreiber
- Belastbarkeit	max. 20 mA
- Inkrementalsignale	K1, K2, invertierbar
- Nullimpuls	K0, 1 x pro Umdrehung, invertierbar
- Max. Ausgangsfrequenz	300 kHz
Toleranzen (bis 20 kHz)	
- Phasenwinkel	± 10°
- Tastverhältnis	± 10°
Toleranzen (bis 100 kHz)	
- Phasenwinkel	± 30°
- Tastverhältnis	± 30°
Standard Strichzahlen	1024, 2500, 3600 und 10 000, andere Strichzahlen auf Anfrage
Option	Sinussignal, 160 kHz (-3dB), Spannung oder Strom
Mechanisch zulässige Drehzahl	4000 min^{-1}
Max. Winkelbeschleunigung	≤ 10^4 rad/s^2
Trägheitsmoment	400 x 10^{-6} kg m^2
Anlaufdrehmoment bei 20°C	ca. 0,10 Nm
Anschluß	Kabelabgang radial (Kabellänge auf Anfrage)
Masse	ca. 1,2 kg

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Umgebungsbedingungen

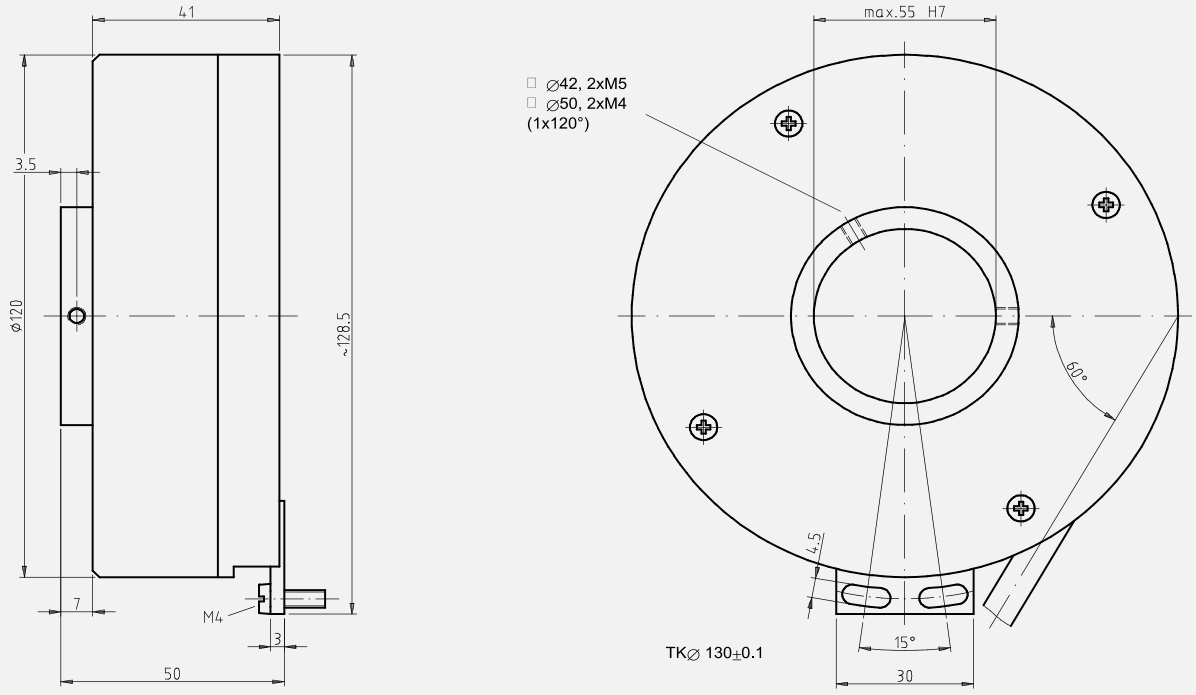
Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s², Sinus 20-2000 Hz
Schock, DIN EN 60068-2-27: 1995 ..... ≤ 1000 m/s², Halbsinus 11ms
EMV
- Störfestigkeit, DIN EN 61000-6-2: 2006
- Störaussendung, DIN EN 61000-6-3: 2007

Betriebstemperaturbereich ..... 0 - 80°C
Lagertemperaturbereich ..... - 30 bis + 80°C
Relative Luftfeuchte, DIN EN 60068-3-4: 2002 ..... 98 %, keine Betauung
Schutzart, DIN EN 60529: 1991 *) ..... IP 64

*) gültig mit aufgeschraubtem Gegenstecker und/oder verschraubter Kabelverschraubung

Maßzeichnung

(Für die Projektierung kundenspezifische Maßzeichnung anfordern!)



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EU-Konformitätserklärung / *EU Declaration of Conformity*

Die in der angehängten Gültigkeitsliste aufgeführten Rotativ Mess-Systeme wurde entwickelt, konstruiert und gefertigt in Übereinstimmung der folgenden EU-Richtlinien bzw. EU-Verordnungen:

The rotary measuring systems listed in the attached list of validity have been developed, designed and manufactured in accordance with the following EU directives and EU regulations:

Elektromagnetische Verträglichkeit (EMV) *Electromagnetic Compatibility (EMC)*	**2014/30/EU (L 96/79)**
Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten (RoHS) *Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)*	**2011/65/EU (L 174/88)**
Cybersicherheitsanforderungen - Verordnung (CRA) *Cyber Resilience Act - Regulation (CRA)*	**(EU) 2024/2847 (L)**

in alleiniger Verantwortung von / *under the sole responsibility of*:

TR Electronic GmbH
Eglishalde 6
D - 78647 Trossingen
Tel.:+49 7425/228-0
E-Mail: info@tr-electronic.de
Deutschland / *Germany*

Folgende harmonisierte Normen wurden angewandt / *The following harmonized standards were applied*:

Fachgrundnorm Elektromagnetische Verträglichkeit, Störfestigkeit (Industriebereich) *Generic standards - Electromagnetic compatibility, Immunity (Industrial environments)*	**EN 61000-6-2:2005/AC:2005**
Fachgrundnorm Elektromagnetische Verträglichkeit, Störaussendung (Wohnbereich) *Generic standards - Electromagnetic compatibility, Emissions (Commercial environments)*	**EN 61000-6-3:2007/A1:2011**
Technische Dokumentation zur Beurteilung von Elektro- und Elektronikgeräten hinsichtlich der Beschränkung gefährlicher Stoffe *Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances*	**EN IEC 63000:2018**

Sonstige angewandte Normen und Technische Richtlinien / *Other applied standards and technical guidelines*:

Anforderungen an die Cybersicherheit für Hersteller und Produkte - Teil 1: Allgemeine Anforderungen *Cyber Resilience Requirements for Manufacturers and Products - Part 1: General requirements*	**BSI TR-03183-1, Version 0.10.0**
Anforderungen an die Cybersicherheit für Hersteller und Produkte - Teil 2: Spezifikation der Software-Komponenten *Cyber Resilience Requirements for Manufacturers and Products - Part 2: Software Bill of Materials*	**BSI TR-03183-2, Version 2.1.0**
Anforderungen an die Cybersicherheit für Hersteller und Produkte - Teil 3: Sicherheitslückenberichte und Sicherheitsmeldungen *Cyber Resilience Requirements for Manufacturers and Products - Part 3: Vulnerability Reports and Notifications*	**BSI TR-03183-3, Version 1.0.0**
Cybersicherheitsanforderungen für Produkte mit digitalen Bestandteilen - Teil 1-3: Umgang mit Schwachstellen *Cybersecurity requirements for products with digital elements - Part 1-3: Vulnerability Handling*	**prEN 40000-1-3:2025**

Trossingen, 07/02/2026

Klaus Tessari, Geschäftsleitung / CEO

Gültigkeitsliste / *List of validity*

Baugröße / *Size*: 20

Order No.: 240-xxxxx
Type: IH20

Baugröße / *Size*: 22

Order No.: CMV22x-xxxxx, CMV22x-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CMV22, CMW22

Baugröße / *Size*: 24

Order No.: 209-xxxxx
Type: IEV24, IES24

Baugröße / *Size*: 36

Order No.: Cxx36x-xxxxx, 0000-xxxxx
Type: CEV36, CES36, COV36, COS36, CDV36, CDF36, CMV36, CMS36, CMF36

Order No.: Ixx36x-xxxxx
Type: IMV36, IMS36, IMF36

Order No.: Cxx362x-xxxxx
Type: CEV362, CES362, CEK362, CEW362, COV362, COS362, COK362, COW362, CMV362, CMS362, CMK362, CMW362

Baugröße / *Size*: 38

Order No.: IEV38H-xxxxx
Type: IEV38H

Baugröße / *Size*: 48

Order No.: 156-xxxxx
Type: MG48M

Baugröße / *Size*: 51

Order No.: 0000-xxxxx
Type: CMV51

Baugröße / *Size*: 58

Order No.: Cxx58x-xxxxx, 0042-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CEV58, CES58, CEH58, CEK58, CEW58, CDV58, CDS58, CDH58, CDK58, CDW58, CMV58, CMS58, CMH58, CMK58, CMW58, COV58, COS58, COH58, COK58, COW58, CPV58, CPS58, CPH58, CPK58, CPW58

Order No.: Cxx582x-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CMV582, CMS582, CMK582, CMW582, CEV582, CES582, CEH582, CEK582, CEW582, COV582, COS582, COH582, COK582, COW582, CPV582, CPS582, CPH582, CPK582, CPW582, CRV582, CRS582, CRH582, CRK582, CRW582, CDW582

Order No.: Ixx58-xxxxx, Ixx58H-xxxxx, Ixx58F-xxxxx
Type: IEV58, IES58, IEH58, IEK58, IEW58, IDV58, IDS58, IDH58, IDK58, IDW58, IMV58, IMS58, IMH58, IMK58, IMW58, IOV58, IOS58, IOH58, IOK58, IOW58, IPV58, IPS58, IPH58, IPK58, IPW58, IRS58, IRV58

Order No.: Ixx582-xxxxx, 0000-xxxxx
Type: IEV582, IES582, IEH582, IEK582, IEW582, IOV582, IOS582, IOH582, IOK582, IOW582, IPV582, IPS582, IPH582, IPK582, IPW582, IRS582, IRV582

Order No.: 5800-xxxxx, 5802-xxxxx, 5820-xxxxx, 5822-xxxxx, 5832-xxxxx, 5840-xxxxx, 5842-xxxxx, 5844-xxxxx, 5852-xxxxx, 5862-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx, 0022-xxxxx
Type: CE58, CS58, CH58, CK58, ME58

Order No.: 210-xxxxx, 219-xxxxx, 242-xxxxx, 5810-xxxxx, 5812-xxxxx, 5830-xxxxx, 5850-xxxxx, 5870-xxxxx
Type: IE58, IV58, IS58, IH58, IK58

Order No.: 174-xxxxx, 180-xxxxx
Type: ZE58, ZI58

Order No.: HEx58x-xxxxx
Type: HEV58, HES58, HEH58, HEK58, HEW58

Order No.: 207-xxxxx
Type: HE58S

Baugröße / *Size*: 60

Order No.: 0000-xxxxx
Type: FMV60

Baugröße / *Size*: 62

Order No.: IEV62-xxxxx
Type: IEV62

Baugröße / *Size*: 65

Order No.: 110-xxxxx, 111-xxxxx, 113-xxxxx, 114-xxxxx, 121-xxxxx, 122-xxxxx, 0062-xxxxx, 0002-xxxxx, 0022-xxxxx
Type: CE65, CK65, CS65

Order No.: Cxx65x-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CEV65, CES65, CEH65, CEK65, CEW65, CDV65, CDS65, CDH65, CDK65, CDW65, CMV65, CMS65, CMH65, CMK65, CMW65, COV65, COS65, COH65, COK65, COW65, CXV65, CXS65, CXH65, CXK65, CXW65

Order No.: 6500-xxxxx, 6502-xxxxx, 6520-xxxxx, 6522-xxxxx, 6540-xxxxx, 6542-xxxxx, 6560-xxxxx, 6562-xxxxx
Type: XE65, XS65, XH65, XK65

Order No.: 118-xxxxx, 119-xxxxx, 170-xxxxx, 171-xxxxx, 175-xxxxx, 176-xxxxx
Type: ZK65, ZE65, ZH65

Order No.: 116-xxxxx, 117-xxxxx, 126-xxxxx, 127-xxxxx, 205-xxxxx, 206-xxxxx
Type: HK65, HS65, HE65

Order No.: HEx65x-xxxxx, 0062-xxxxx
Type: HEV65, HES65, HEH65, HEK65, HEW65

Baugröße / *Size*: 70

Order No.: 0000-xxxxx
Type: IES70

Baugröße / *Size*: 75 (nicht sicherheitsgerichtet / *not safety-related*)

Order No.: CDV75M-xxxxx, CDH75M-xxxxx, CDW75M-xxxxx
Type: CDV75M, CDH75M, CDW75M

Order No.: 155-xxxxx
Type: MG75M

Baugröße / *Size*: 76

Order No.: 243-xxxxx
Type: IH76A

Baugröße / *Size*: 80, 81

Order No.: CEH80x-xxxxx, COH80x-xxxxx
Type: CEH80, COH80

Order No.: CES80x-xxxxx, COS80x-xxxxx
Type: CES80, COS80

Order No.: CEH802x-xxxxx, COH802x-xxxxx
Type: CEH802, COH802

Order No.: CES802x-xxxxx, COS802x-xxxxx
Type: CES802, COS802

Order No.: IEH80-xxxxx
Type: IEH80

Order No.: 260-xxxxx, 261-xxxxx
Type: ZH80, ZH81

Order No.: Qxx8xx-xxxxx
Type: QEH80, QDH80, QEH81, QDH81, QXH80, QXH81

Baugröße / *Size*: 84

Order No.: Cxx84x-xxxxx
Type: CEV84, CEW84, COV84

Order No.: Cxx842x-xxxxx
Type: CMV842, CMW842, CEV842, CEW842, COV842, COW842, CPV842, CPW842, CDV842, CDW842

Order No.: IEV84-xxxxx
Type: IEV84

Baugröße / *Size*: 99

Order No.: Ix99-xxxxx
Type: IS99, IV99

Baugröße / *Size*: 100

Order No.: 100-xxxxx, 101-xxxxx, 102-xxxxx, 103-xxxxx, 105-xxxxx
Type: CE100

Order No.: 200-xxxxx, 203-xxxxx
Type: AE100

Order No.: CEx100x-xxxxx
Type: CEV100, CES100, CEH100
Order No.: 201-xxxxx, 202-xxxxx
Type: HE100

Order No.: HEx100x-xxxxx
Type: HEV100, HES100, HEH100

Order No.: 172-xxxxx, 173-xxxxx
Type: ZE100, ZE115

Order No.: 235-xxxxx
Type: IE100, IE101

Order No.: IEx100-xxxxx
Type: IEV100, IES100, IEH100

Baugröße / *Size*: 110

Order No.: CEH110x-xxxxx, COH110x-xxxxx
Type: CEH110, COH110

Order No.: CEH1102x-xxxxx, COH1102x-xxxxx
Type: CEH1102, COH1102

Baugröße / *Size*: 115

Order No.: CEV115x-xxxxx, CEW115x-xxxxx, CDV115x-xxxxx, CDW115x-xxxxx, COV115x-xxxxx, COW115x-xxxxx
Type: CEV115, CEW115, CDV115, CDW115, COV115, COW115

Order No.: Cxx1152x-xxxxx, 0002-xxxxx
Type: CMV1152, CMW1152, CEV1152, CEW1152, COV1152, COW1152, CPV1152, CPW1152, CDV1152, CDW1152, CRV1152

Baugröße / *Size*: 120

Order No.: 245-xxxxx
Type: IH120A

Baugröße / *Size*: 130, 131

Order No.: IxH130-xxxxx
Type: IEH130, IOH130, IDH130

Order No.: IxH1302-xxxxx
Type: IEH1302, IOH1302

Order No.: IxH131-xxxxx
Type: IRH131

Schnittstellenbox / *Interface box*:

Order No.: CIB2X-xxxxx
Type: CIB2X

Schnittstellenbox / *Interface box*:

Order No.: CMB2X-xxxxx
Type: CMB2X

UK Declaration of Conformity

The rotary measuring systems listed in the attached list of validity have been developed, designed and manufactured in accordance with the UK statutory instruments and their amendments:

The Electromagnetic Compatibility Regulations 2016	**S.I. 2016 No. 1091**
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012	**S.I. 2012 No. 3032**

under the sole responsibility of the manufacturer:

TR Electronic GmbH
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D - 78647 Trossingen
Tel.:+49 7425/228-0
E-Mail: info@tr-electronic.de
Germany

Name and address of authorised representative:

TR Electronic Ltd.
2 Barford Exchange
Wellesbourne Road
GB – Barford, Warwick, Warwickshire CV35 8AQ
Tel.:+44 1926 75 41 41
E-Mail: info@tr-electronic.co.uk

The following designated standards were applied:

Generic standards - Electromagnetic compatibility, Immunity (Industrial environments)	**EN 61000-6-2:2005/AC:2005**
Generic standards - Electromagnetic compatibility, Emissions (Commercial environments)	**EN 61000-6-3:2007/A1:2011**
Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	**EN IEC 63000:2018**

Trossingen, 13/02/2026

Mr. Klaus Tessari, CEO

List of validity

Size: 20

Order No.: 240-xxxxx
Type: IH20

Size: 22

Order No.: CMV22x-xxxxx, CMV22x-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CMV22, CMW22

Size: 24

Order No.: 209-xxxxx
Type: IEV24, IES24

Size: 36

Order No.: Cxx36x-xxxxx, 0000-xxxxx
Type: CEV36, CES36, COV36, COS36, CDV36, CDF36, CMV36, CMS36, CMF36

Order No.: Ixx36x-xxxxx
Type: IMV36, IMS36, IMF36

Order No.: Cxx362x-xxxxx
Type: CEV362, CES362, CEK362, CEW362, COV362, COS362, COK362, COW362, CMV362, CMS362, CMK362, CMW362

Size: 38

Order No.: IEV38H-xxxxx
Type: IEV38H

Size: 48

Order No.: 156-xxxxx
Type: MG48M

Size: 51

Order No.: 0000-xxxxx
Type: CMV51

Size: 58

Order No.: Cxx58x-xxxxx, 0042-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CEV58, CES58, CEH58, CEK58, CEW58, CDV58, CDS58, CDH58, CDK58, CDW58, CMV58, CMS58, CMH58, CMK58, CMW58, COV58, COS58, COH58, COK58, COW58, CPV58, CPS58, CPH58, CPK58, CPW58

Order No.: Cxx582x-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CMV582, CMS582, CMK582, CMW582, CEV582, CES582, CEH582, CEK582, CEW582, COV582, COS582, COH582, COK582, COW582, CPV582, CPS582, CPH582, CPK582, CPW582, CRV582, CRS582, CRH582, CRK582, CRW582, CDW582

Order No.: Ixx58-xxxxx, Ixx58H-xxxxx, Ixx58F-xxxxx
Type: IEV58, IES58, IEH58, IEK58, IEW58, IDV58, IDS58, IDH58, IDK58, IDW58, IMV58, IMS58, IMH58, IMK58, IMW58, IOV58, IOS58, IOH58, IOK58, IOW58, IPV58, IPS58, IPH58, IPK58, IPW58, IRS58, IRV58

Order No.: Ixx582-xxxxx, 0000-xxxxx
Type: IEV582, IES582, IEH582, IEK582, IEW582, IOV582, IOS582, IOH582, IOK582, IOW582, IPV582, IPS582, IPH582, IPK582, IPW582, IRS582, IRV582

Order No.: 5800-xxxxx, 5802-xxxxx, 5820-xxxxx, 5822-xxxxx, 5832-xxxxx, 5840-xxxxx, 5842-xxxxx, 5844-xxxxx, 5852-xxxxx, 5862-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx, 0022-xxxxx
Type: CE58, CS58, CH58, CK58, ME58

Order No.: 210-xxxxx, 219-xxxxx, 242-xxxxx, 5810-xxxxx, 5812-xxxxx, 5830-xxxxx, 5850-xxxxx, 5870-xxxxx
Type: IE58, IV58, IS58, IH58, IK58

Order No.: 174-xxxxx, 180-xxxxx
Type: ZE58, ZI58

Order No.: HEx58x-xxxxx
Type: HEV58, HES58, HEH58, HEK58, HEW58

Order No.: 207-xxxxx
Type: HE58S

Size: 60

Order No.: 0000-xxxxx
Type: FMV60

Size: 62

Order No.: IEV62-xxxxx
Type: IEV62

Size: 65

Order No.: 110-xxxxx, 111-xxxxx, 113-xxxxx, 114-xxxxx, 121-xxxxx, 122-xxxxx
0062-xxxxx, 0002-xxxxx, 0022-xxxxx
Type: CE65, CK65, CS65

Order No.: Cxx65x-xxxxx, 0062-xxxxx, 0000-xxxxx, 0002-xxxxx
Type: CEV65, CES65, CEH65, CEK65, CEW65, CDV65, CDS65, CDH65, CDK65, CDW65, CMV65, CMS65, CMH65, CMK65, CMW65, COV65, COS65, COH65, COK65, COW65, CXV65, CXS65, CXH65, CXK65, CXW65

Order No.: 6500-xxxxx, 6502-xxxxx, 6520-xxxxx, 6522-xxxxx, 6540-xxxxx, 6542-xxxxx, 6560-xxxxx, 6562-xxxxx
Type: XE65, XS65, XH65, XK65

Order No.: 118-xxxxx, 119-xxxxx, 170-xxxxx, 171-xxxxx, 175-xxxxx, 176-xxxxx
Type: ZK65, ZE65, ZH65

Order No.: 116-xxxxx, 117-xxxxx, 126-xxxxx, 127-xxxxx, 205-xxxxx, 206-xxxxx
Type: HK65, HS65, HE65

Order No.: HEx65x-xxxxx, 0062-xxxxx
Type: HEV65, HES65, HEH65, HEK65, HEW65

Size: 70

Order No.: 0000-xxxxx
Type: IES70

Size: 75 (not safety-related)

Order No.: CDV75M-xxxxx, CDH75M-xxxxx, CDW75M-xxxxx
Type: CDV75M, CDH75M, CDW75M

Order No.: 155-xxxxx
Type: MG75M

Size: 76

Order No.: 243-xxxxx
Type: IH76A

Size: 80, 81

Order No.: CEH80x-xxxxx, COH80x-xxxxx
Type: CEH80, COH80

Order No.: CES80x-xxxxx, COS80x-xxxxx
Type: CES80, COS80

Order No.: CEH802x-xxxxx, COH802x-xxxxx
Type: CEH802, COH802

Order No.: CES802x-xxxxx, COS802x-xxxxx
Type: CES802, COS802

Order No.: IEH80-xxxxx
Type: IEH80

Order No.: 260-xxxxx, 261-xxxxx
Type: ZH80, ZH81

Order No.: Qxx8xx-xxxxx
Type: QEH80, QDH80, QEH81, QDH81, QXH80, QXH81

Size: 84

Order No.: Cxx84x-xxxxx
Type: CEV84, CEW84, COV84

Order No.: Cxx842x-xxxxx
Type: CMV842, CMW842, CEV842, CEW842, COV842, COW842, CPV842, CPW842, CDV842, CDW842

Order No.: IEV84-xxxxx
Type: IEV84

Size: 99

Order No.: Ix99-xxxxx
Type: IS99, IV99

Size: 100

Order No.: 100-xxxxx, 101-xxxxx, 102-xxxxx, 103-xxxxx, 105-xxxxx
Type: CE100

Order No.: 200-xxxxx, 203-xxxxx
Type: AE100

Order No.: CEx100x-xxxxx
Type: CEV100, CES100, CEH100

Order No.: 201-xxxxx, 202-xxxxx
Type: HE100

Order No.: HEx100x-xxxxx
Type: HEV100, HES100, HEH100

Order No.: 172-xxxxx, 173-xxxxx
Type: ZE100, ZE115

Order No.: 235-xxxxx
Type: IE100, IE101

Order No.: IEx100-xxxxx
Type: IEV100, IES100, IEH100

Size: 110

Order No.: CEH110x-xxxxx, COH110x-xxxxx
Type: CEH110, COH110

Order No.: CEH1102x-xxxxx, COH1102x-xxxxx
Type: CEH1102, COH1102

Size: 115

Order No.: CEV115x-xxxxx, CEW115x-xxxxx, CDV115x-xxxxx, CDW115x-xxxxx, COV115x-xxxxx, COW115x-xxxxx
Type: CEV115, CEW115, CDV115, CDW115, COV115, COW115

Order No.: Cxx1152x-xxxxx, 0002-xxxxx
Type: CMV1152, CMW1152, CEV1152, CEW1152, COV1152, COW1152, CPV1152, CPW1152, CDV1152, CDW1152, CRV1152

Size: 120

Order No.: 245-xxxxx
Type: IH120A

Size: 130, 131

Order No.: IxH130-xxxxx
Type: IEH130, IOH130, IDH130

Order No.: IxH1302-xxxxx
Type: IEH1302, IOH1302

Order No.: IxH131-xxxxx
Type: IRH131

***Interface box*:**

Order No.: CIB2X-xxxxx
Type: CIB2X

***Interface box*:**

Order No.: CMB2X-xxxxx
Type: CMB2X

IH120V*16384 TTL 2DMS 38H7 KRH

Ref.: 245-00146
10.11.2026
010101012099999999

Abb. ähnlich

Vorteile
_ Für Werkzeugmaschinen
_ Hochauflösendes Mess-System
_ Robuste Bauform

Technische Daten zu 245-00146

IMPULSZAHL	16384
SCHNITTSTELLE	INCREMENTAL
KANALZAHL	(K1/K2)+NEG
NULLIMPULS	K0+NEG
VERSORGUNGSSPANNUNG	4,75V-30V
AUSGANGSPEGEL	TTL
SCHUTZART	IP62
ARBEITSTEMPERATUR	-20+70°C
AUSG-FREQUENZ	300 KHZ
WELLENAUSFUEHRUNG	38H7 HOHLWELLE
ANSCHLUSSART	CONTACT 12P
ANSCHLUSSRICHTUNG	STECKER SEITL. AM ROHR
GEGENSTECKER	NEIN

Änderungen vorbehalten.

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info@tr-electronic.de
www.tr-electronic.de

IH120V*16384 TTL 2DMS 38H7 KRH

Ref.: 245-00146
10.11.2026
010101012099999999

Technische Daten zu 245-00146

STECKERBELEGUNGSNR	1345I
OPTION ENC	2X DREHMOMENTSTÜTZE 1-FLÜGEL
	ERHÖHTE GENAUIGKEIT
ZEICHNUNGSNR	04-190-146
DOKUMENTATIONS-NR	DOKUMENTE
AL:	N
ECCN:	N

Allgemeine Daten zu K-IH120V-INK-1

Nennspannung - Kennwert	24 VDC
- Grenzwerte, min/max	11/27 VDC
Nennstrom, typisch - Kennwert	100 mA
- Zustand	ohne Last
Versorgung - Optional	5 VDC ± 5 %
Signalform	Rechteck
Inkrementalsignale, Rechteck - Kanäle	K1+, K2+
- invertierte Kanäle	K1-, K2-, optional
- Spurlage, elektrisch	90 °
Nullimpuls, Rechteck - Kanal (Kanäle)	K0+
- invertierter Kanal	K0- optional
- Anzahl pro Umdrehung	1x
- Breite, elektrisch	90 °, 180 °, 360 °
Impulse/Umdrehung, Rechteck	9000
	10000
	18000
Genauigkeit	± 10"
Interpolation, optional	5-fach Unterteilung
	10-fach Unterteilung
	25-fach Unterteilung

Änderungen vorbehalten.

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Allgemeine Daten zu K-IH120V-INK-1

	50-fach Unterteilung
Ausgangstreiber, TTL - Ausgangspegel	RS-422, 5 VDC
- Laststrom	<= 20 mA
- Ausgangsfrequenz	<= 1 MHz
Ausgangstreiber, HTL - Kurzschlussfest	ja
- Ausgangspegel	Gegentakt, Versorgungsspannung
- Laststrom	<= 20 mA
- Ausgangsfrequenz	<= 300 kHz
Parametrisierungsart	Werkseinstellung
Maximal Drehzahl, mechanisch	<= 4000 1/min
Wellenbelastung, axial/radial	Eigenmasse
Rundlauftoleranz	± 0,05 mm
Masse, typisch	1 kg

Umgebungsbedingungen

Vibration - Kennwert	<= 100 m/s²
- Sinus	20…2000 Hz
Schock - Kennwert	<= 1000 m/s²
- Halbsinus	11 ms
Störfestigkeit	DIN EN 61000-6-2
Störaussendung	DIN EN 61000-6-3
Arbeitstemperatur - Standard	0…+80 °C
Lagertemperatur, trocken	-30…+80 °C
Relative Luftfeuchte	98 %, keine Betauung
Schutzart - Standard	IP62

Änderungen vorbehalten.

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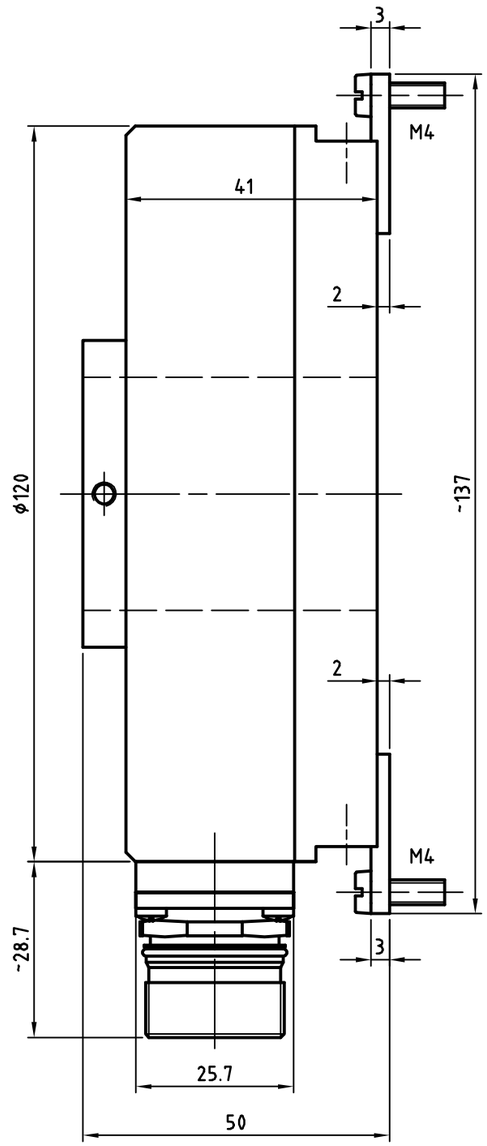

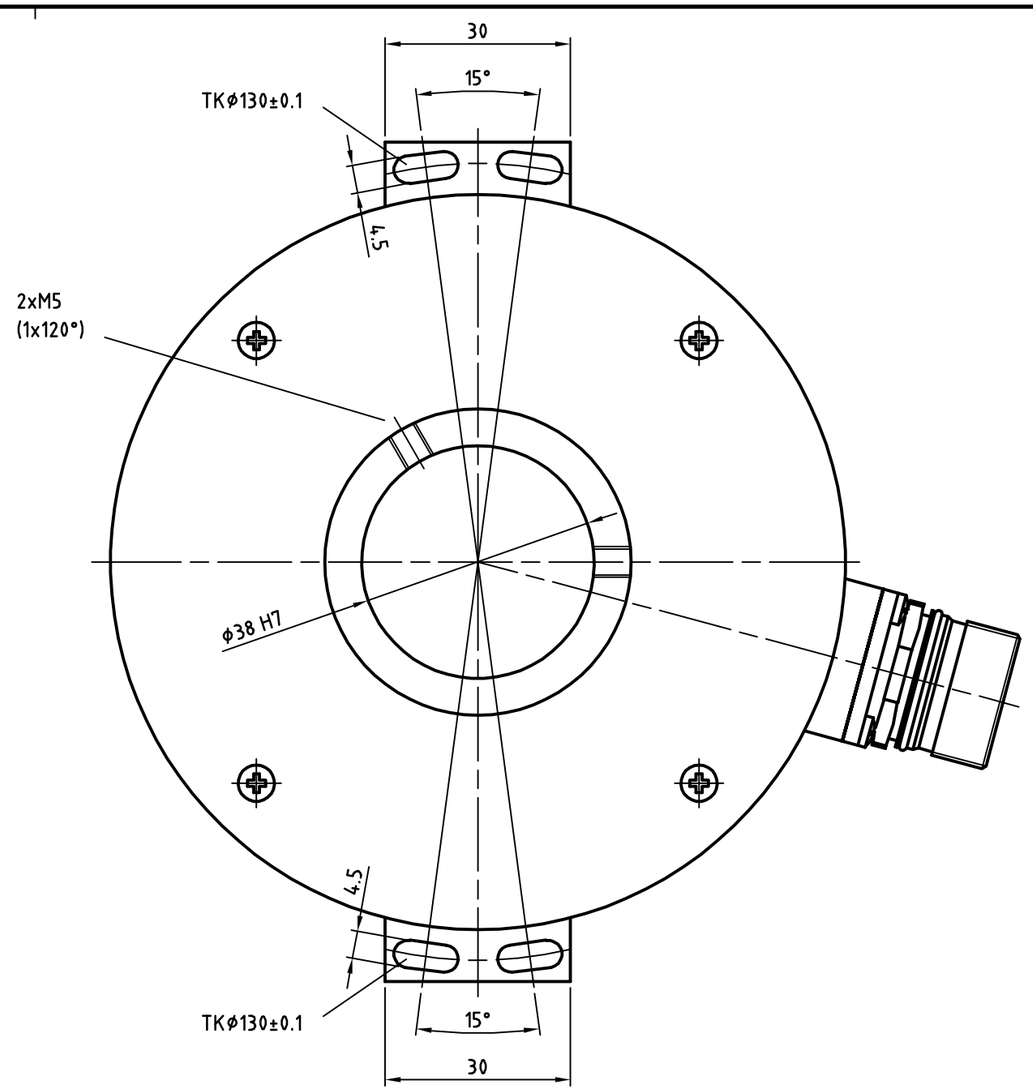

12pol. Contact (links codiert)
(versetzt gezeichnet)

ARTIKEL-BEZ.:	IH-120-A
IMPULSZAHL	16384
AUSGANGSSTUFE	INC__LD
KANALZAHL	K1, K2+neg.
NULLIMPULS	K0+neg.
VERSORGUNGSSPANNUNG	11-27V
PEGELSPANNUNG	5V
SCHUTZART	IP62
GRENZTEMPERATUR	-20...+70°C
MAX. AUSGANGSFREQ.	300kHz
FLANSCHART	---
WELLE	Hohlwelle Ø38H7
STECKERART	12pol. Stecker seitlich am Rohr ohne GEGENSTECKER
OPTIONEN	2x DREHMOMENTSTÜTZE 1-FLÜGELIG

ø38	H7 $^{+0.025}_{0}$ $^{38.025}_{38}$
Maß	Passung

TR Electronic GmbH
Eglishalde 6
78647 Trossingen
Telefon 07425/228-0

	Datum	Name
Erstellt	20.07.2018	FLAIG
Bearb.	20.07.2018	FLAIG
Gepr.		
Norm		

Zust.	Änderung	Datum	Name

Steckerbelegung:
1345

EDV-NR.:

Maßstab 1:1 DIN A3 Projekt-Nr.:

Artikel-NR.: 245-00146
Bestell-NR.:

IH-120-A
Hohlwellengeber

Zeichnungs-NR.: 04-190-146

Blatt 1

Pin assignment

Pin assignment number: 1345

Index: I

15.11.2022

Connector name: M23 12-pol

Pin-count: 12

Pin	Designation	Description	Colour
1	CH_A_OUT	Channel A	-
2	/CH_A_OUT	Channel A inverted	-
3	not connected		-
4	CH_B_OUT	Channel B	-
5	/CH_B_OUT	Channel B inverted	-
6	not connected		-
7	CH_I_OUT	Channel Reference	-
8	/CH_I_OUT	Channel Reference inverted	-
9	not connected		-
10	not connected		-
11	Supply Voltage IN	Supply voltage	-
12	Ground IN	Ground	-

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.
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