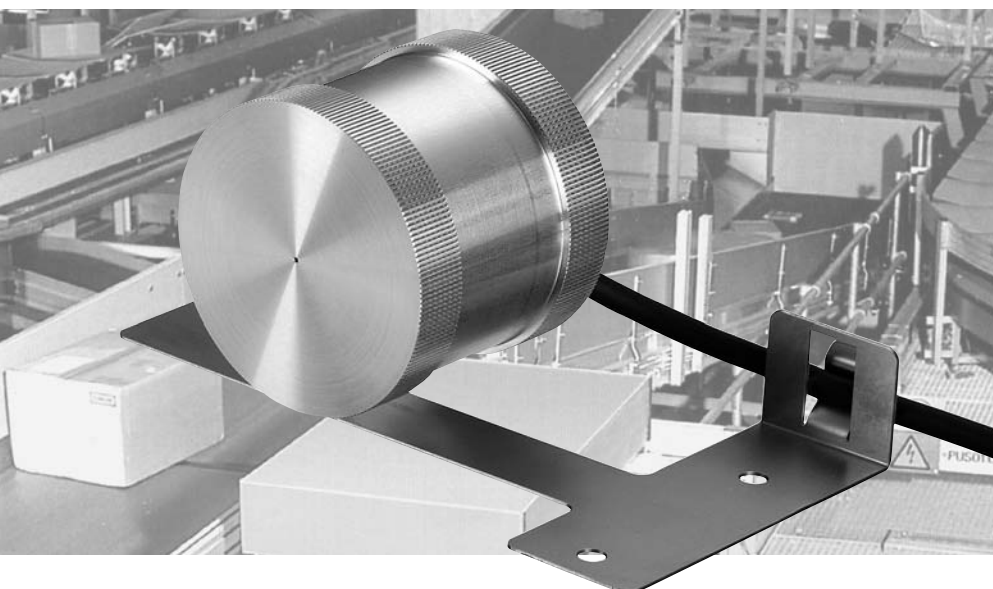


DKV60: Inkrementale Messrad-Encoder



Als Basis dient der Inkremental-Encoder DKS40. Durch den Einsatz der Mini-Disc-Technologie ist der DKS40 und somit der DKV60 extrem robust gegenüber Schock und Vibration. Außerdem zeichnet den DKV60 seine hohe Schutzart IP 65 aus.

Stellen Sie sich Ihren individuellen Messrad-Encoder zusammen!

Mögliche Produktvarianten:

- Schnittstelle
TTL/RS422, HTL/push-pull
- Messtrommel
Oberfläche Rändel,
Oberfläche O-Ring
- Leitungsabgang 1,5 m

Dank dieser Produktvielfalt ergeben sich zahlreiche Einsatzmöglichkeiten z. B. in:

- Holzbearbeitungsmaschinen
- Stahl- und Blechbearbeitungsmaschinen
- Lager- und Fördertechnik
- Sortieranlagen
- Transportbänder
- Textilmaschinen
- Druck und Papier



UL-Zertifizierung nicht für alle Typen gültig.
Siehe Typenschild auf dem Encoder.

For use in NFPA 79 applications only.
Interconnection cables and accessories
are available from SICK.

Der Inkrementale Messrad-Encoder DKV60 stellt eine preiswerte und äußerst kompakte Lösung zur Ermittlung von Position und Geschwindigkeit direkt am Förderband dar.

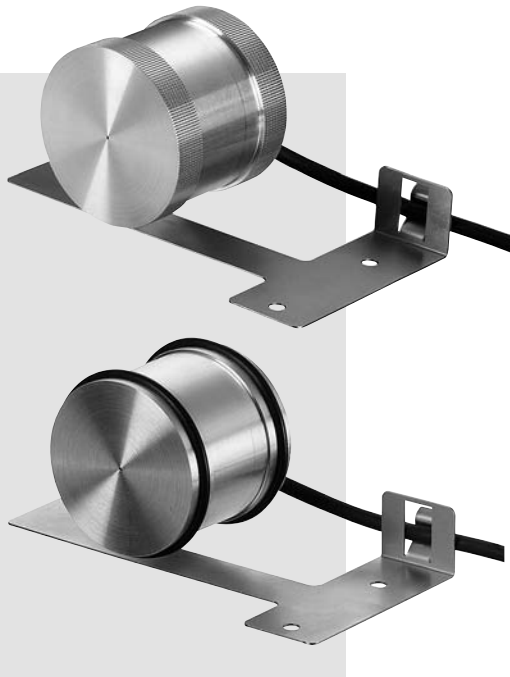
Der Inkrementale Messrad-Encoder DKV60 kann direkt an das Förderband angebaut werden, ein Eingriff in die vorhandene Konstruktion ist nicht erforderlich.



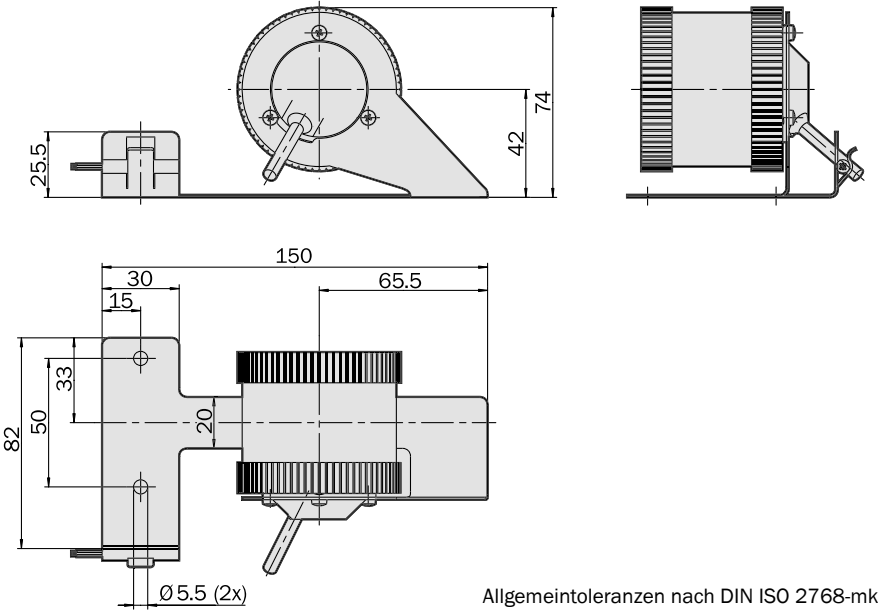
Strichzahlen
1 bis 2.000

Inkremental-Encoder

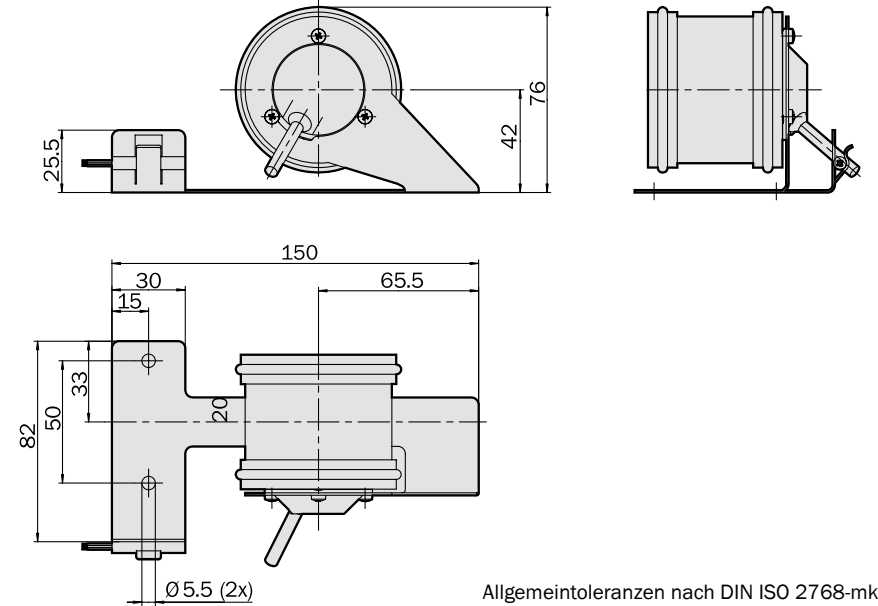
- Leitungsabgang
- Schutzart bis IP 65
- Elektrische Schnittstellen
TTL und HTL



Maßbild DKV60; Oberfläche Rändel



Maßbild DKV60; Oberfläche O-Ring

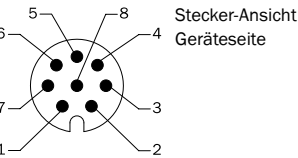


Zubehör

Anschlusstechnik (Seite 7)

PIN und Aderbelegung

PIN, 8-polig M12 Stecker	Farbe der Adern	Signal TTL, HTL	Erklärung
1	Braun	$\bar{A}$	Signalleitung
2	Weiß	A	Signalleitung
3	Schwarz	$\bar{B}$	Signalleitung
4	Rosa	B	Signalleitung
5	Gelb	$\bar{Z}$	Signalleitung
6	Lila	Z	Signalleitung
7	Blau	GND	Masseanschluss des Encoders
8	Rot	+U _S	Versorgungsspannung ¹⁾
	Schirm	Schirm	Schirm ²⁾



¹⁾ Potenzialfrei zum Gehäuse
²⁾ Schirm Encoderseitig mit Gehäuse verbunden. Steuerungsseitig mit Erde verbinden.

Technische Daten nach DIN 32878		DKV60	DKV										
Impulse je 200 mm	1 bis 2.000												
Elektrische Schnittstelle	4,5 ... 5,5 V, TTL/RS 422, 6-Kanal												
	10 ... 30 V, HTL, 6-Kanal												
Masse	0,42 kg												
Referenzsignal													
Anzahl	1												
Lage	90° elektr., logisch verknüpft mit A und B												
Fehlergrenzen													
Oberfläche Rändel	± 0,5 mm/m												
Oberfläche O-Ring	± 4 mm/m												
Max. Betriebsdrehzahl	1.500 min ⁻¹												
Lagerlebensdauer	2 x 10 ⁹ Umdrehungen												
Arbeitstemperaturbereich	-10 ... +60 °C												
Lagerungstemperaturbereich	-40 ... +70 °C												
Zulässige relative Luftfeuchte ¹⁾	90 %												
EMV ²⁾													
Widerstandsfähigkeit													
gegenüber Schocks ³⁾	50/7 g/ms												
gegenüber Vibration ⁴⁾	20/10 ... 2000 g/Hz												
Schutzart nach IEC 60529	IP 65												
Laststrom													
4,5 ... 5,5 V, TTL/RS 422	max. 30 mA												
10 ... 30 V, HTL/push-pull	max. 30 mA												
Betriebsstrom ohne Last													
4,5 ... 5,5 V, TTL/RS 422	40 mA												
10 ... 30 V, HTL/push-pull	40 mA												
Initialisierungszeit nach Power on	40 ms												

¹⁾ Betauung der optischen Abtastung
nicht zulässig

²⁾ Nach DIN EN 61000-6-2
und DIN EN 61000-6-3

³⁾ Nach DIN EN 60068-2-27

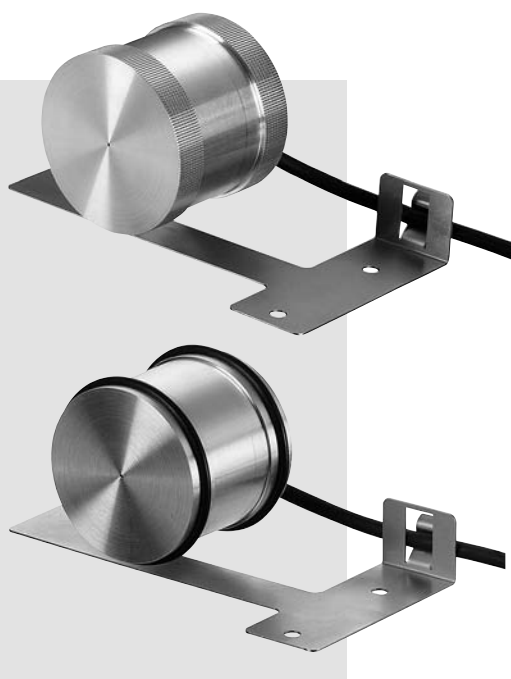
⁴⁾ Nach DIN EN 60068-2-6



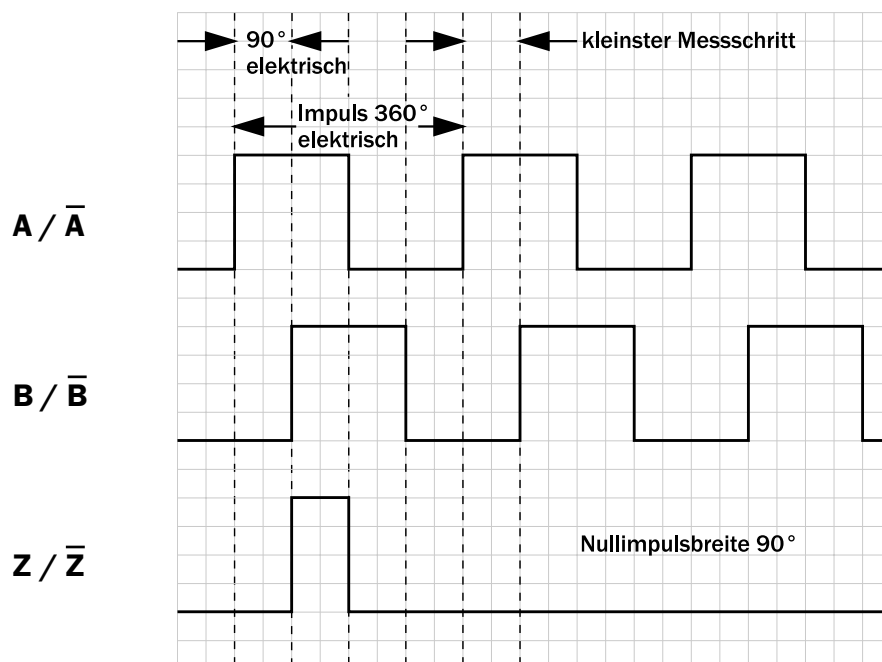
**Strichzahlen
1 bis 2.000**

Inkremental-Encoder

- Leitungsabgang
- Schutzart bis IP 65
- Elektrische Schnittstellen
TTL und HTL



Signalausgänge



Cw mit Blick auf die Messtrommel



Zubehör

Anschlusstechnik (Seite 7)

Bestell-Informationen

Inkremental-Encoder DKV60

Stelle 1	Stelle 2	Stelle 3	Stelle 4	Stelle 5	Stelle 6	Stelle 7	Stelle 8	Stelle 9	Stelle 10	Stelle 11	Stelle 12	Stelle 13	Stelle 14
D	K	V	6	0	-			K					

Elektrische Schnittstelle 4,5 ... 5,5 V, TTL/RS 422 6-Kanal = A 10 ... 30 V, HTL/push-pull 6-Kanal = E	Mechanische Ausführung Messtrommel, Oberfläche Rändel DIN82-RAA 1 = 1 Messtrommel, Oberfläche O-Ring EPDM, hochabriebfest = 2	Anschlussart Leitung 8-adrig, 1,5 m = K Leitung, universal 1,5 m ¹⁾ mit Stecker M12, 8-polig = P	Impulse je 200 mm Im Klartext, immer 5 Stellen.
---	--	---	---

¹⁾ Der universale Leitungsabgang ist so positioniert, dass eine knickfreie Verlegung in radialer oder axialer Richtung möglich ist.

Bestellbeispiele

DKV60; 4,5 ... 5,5 V, TTL/RS 422; 6-Kanal; Messtrommel Oberfläche Rändel

Typ	Bestell-Nr.	Impulse/200 mm	Auflösung	Kleinsten Messschritt
DKV60-A1K00020	1035039	20	1 Impuls = 10 mm	2,5 mm
DKV60-A1K00200	1035040	200	1 Impuls = 1 mm	0,25 mm
DKV60-A1K01000	1035041	1000	1 Impuls = 0,2 mm	0,05 mm
DKV60-A1K02000	1035042	2000	1 Impuls = 0,1 mm	0,025 mm

DKV60; 4,5 ... 5,5 V, TTL/RS 422; 6-Kanal; Messtrommel Oberfläche O-Ring; EPDM, hochabriebfest

Typ	Bestell-Nr.	Impulse/200 mm	Auflösung	Kleinsten Messschritt
DKV60-A2K00020	1035043	20	1 Impuls = 10 mm	2,5 mm
DKV60-A2K00200	1035044	200	1 Impuls = 1 mm	0,25 mm
DKV60-A2K01000	1035045	1000	1 Impuls = 0,2 mm	0,05 mm
DKV60-A2K02000	1035046	2000	1 Impuls = 0,1 mm	0,025 mm

DKV60; 10 ... 30 V, HTL/push-pull; 6-Kanal; Messtrommel Oberfläche Rändel

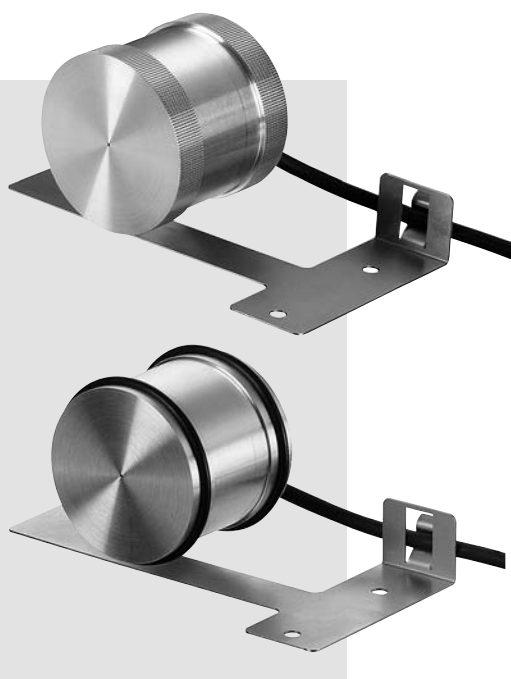
Typ	Bestell-Nr.	Impulse/200 mm	Auflösung	Kleinsten Messschritt
DKV60-E1K00020	1035047	20	1 Impuls = 10 mm	2,5 mm
DKV60-E1K00200	1035048	200	1 Impuls = 1 mm	0,25 mm
DKV60-E1K01000	1035049	1000	1 Impuls = 0,2 mm	0,05 mm
DKV60-E1K02000	1035050	2000	1 Impuls = 0,1 mm	0,025 mm

DKV60; 10 ... 30 V, HTL/push-pull; 6-Kanal; Messtrommel Oberfläche O-Ring; EPDM, hochabriebfest

Typ	Bestell-Nr.	Impulse/200 mm	Auflösung	Kleinsten Messschritt
DKV60-E2K00020	1035051	20	1 Impuls = 10 mm	2,5 mm
DKV60-E2K00200	1035052	200	1 Impuls = 1 mm	0,25 mm
DKV60-E2K01000	1035053	1000	1 Impuls = 0,2 mm	0,05 mm
DKV60-E2K02000	1035054	2000	1 Impuls = 0,1 mm	0,025 mm

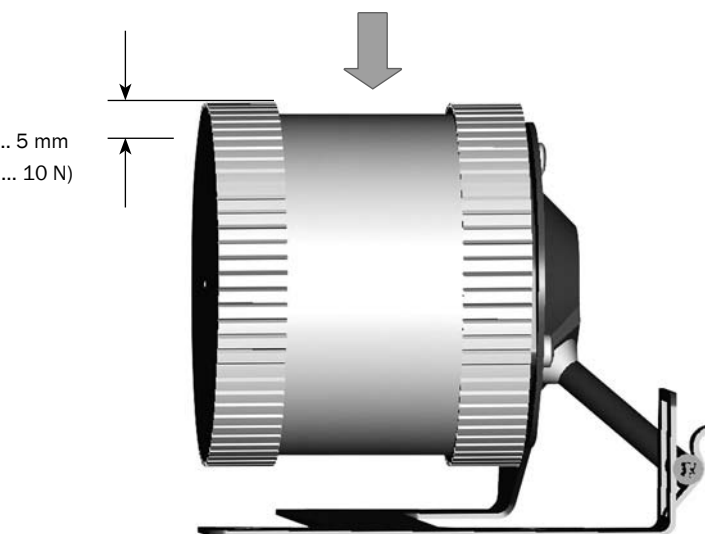


- Leitungsabgang
- Schutzart bis IP 65
- Elektrische Schnittstellen
TTL und HTL



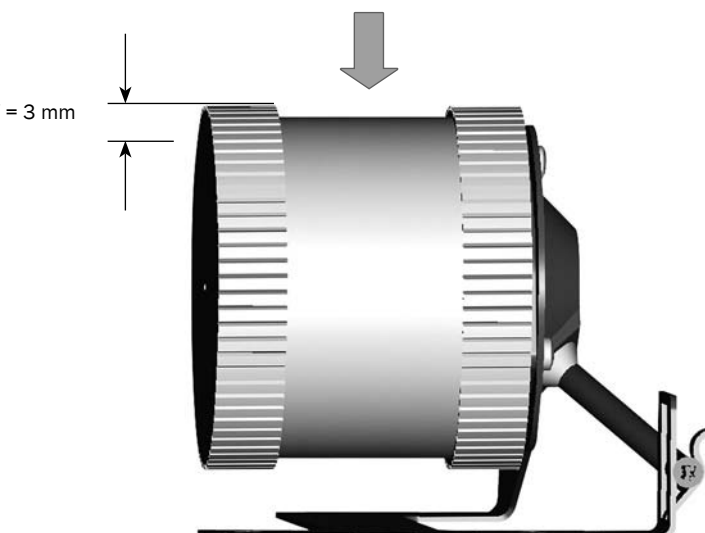
Arbeitsstellung/Vorspannung

Arbeitsstellung/
Vorspannung = 2 ... 5 mm
(5 ... 10 N)

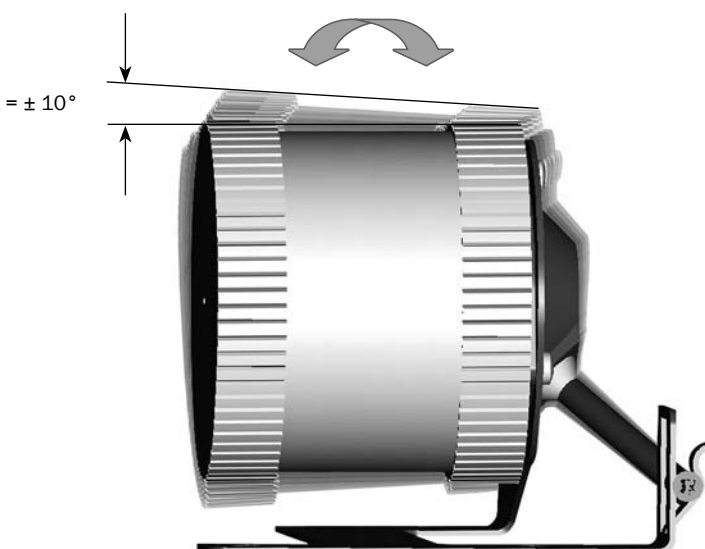


Max. Auslenkung

Max. Auslenkung Y = 3 mm



Max. Auslenkung X = $\pm 10^\circ$



Zubehör

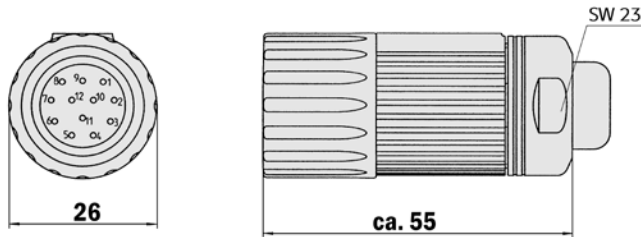
Anschlusstechnik (Seite 7)

Maßbilder und Bestell-Informationen

Rund-Schraubsystem M23, 12-polig

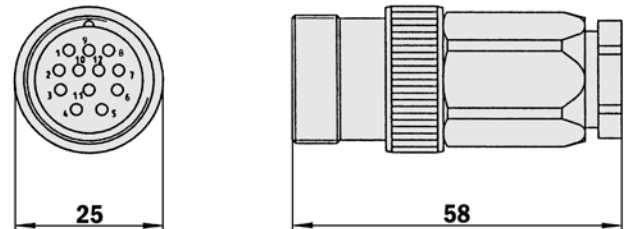
Leitungsdose M23, 12-polig, gerade, abgeschirmt

Typ	Bestell-Nr.	Kontakte
DOS-2312-G	6027538	12



Leitungsstecker M23, 12-polig, gerade, abgeschirmt

Typ	Bestell-Nr.	Kontakte
STE-2312-G	6027537	12

Leitungsdose M23, 12-polig, gerade, Leitung 11-adrig, 4 x 2 x 0,25 + 2 x 0,5 + 1 x 0,14 mm² mit Abschirmung,

Leitungsdurchmesser 7,8 mm

Typ	Bestell-Nr.	Kontakte	Leitungslänge
DOL-2312-G02MLA3	2030682	12	2,0 m
DOL-2312-G07MLA3	2030685	12	7,0 m
DOL-2312-G10MLA3	2030688	12	10,0 m
DOL-2312-G15MLA3	2030692	12	15,0 m
DOL-2312-G20MLA3	2030695	12	20,0 m
DOL-2312-G25MLA3	2030699	12	25,0 m
DOL-2312-G30MLA3	2030702	12	30,0 m

Leitungsdose M23, 12-polig, gerade, Leitung 12-adrig, 4 x 2 x 0,25 + 2 x 0,5 + 2 x 0,14 mm² mit Abschirmung, schlepptauglich,

Leitungsdurchmesser 7,8 mm

Typ	Bestell-Nr.	Kontakte	Leitungslänge
DOL-2312-G1M5MA3	2029212	12	1,5 m
DOL-2312-G03MMA3	2029213	12	3,0 m
DOL-2312-G05MMA3	2029214	12	5,0 m
DOL-2312-G10MMA3	2029215	12	10,0 m
DOL-2312-G20MMA3	2029216	12	20,0 m
DOL-2312-G30MMA3	2029217	12	30,0 m

Leitung 8-adrig, Meterware, 4 x 2 x 0,15 mm² mit Abschirmung,

Leitungsdurchmesser 5,6 mm

Typ	Bestell-Nr.	Adern
LTG-2308-MWENC	6027529	8

Leitung 11-adrig, Meterware, 4 x 2 x 0,25 + 2 x 0,5 + 1 x 0,14 mm² mit Abschirmung, Leitungsdurchmesser 7,5 mm

Typ	Bestell-Nr.	Adern
LTG-2411-MW	6027530	11

Leitung 12-adrig, Meterware, 4 x 2 x 0,25 + 2 x 0,5 + 2 x 0,14 mm² mit Abschirmung, schlepptauglich, Leitungsdurchmesser 7,8 mm

Typ	Bestell-Nr.	Adern	Beschreibung
LTG-2512-MW	6027531	12	
LTG-2612-MW	6028516	12	Salzwasser- und UV-beständig

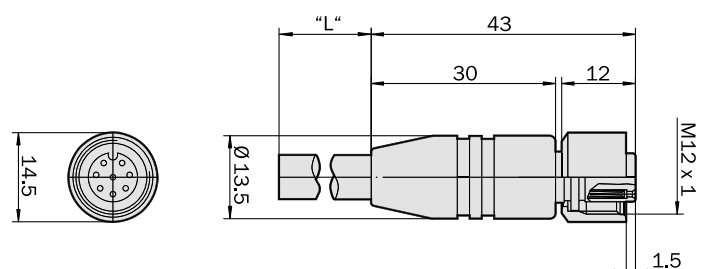
O-Ring EPDM (für Ersatzbedarf), Set (2 Stück)

55,0 x 4,0 mm

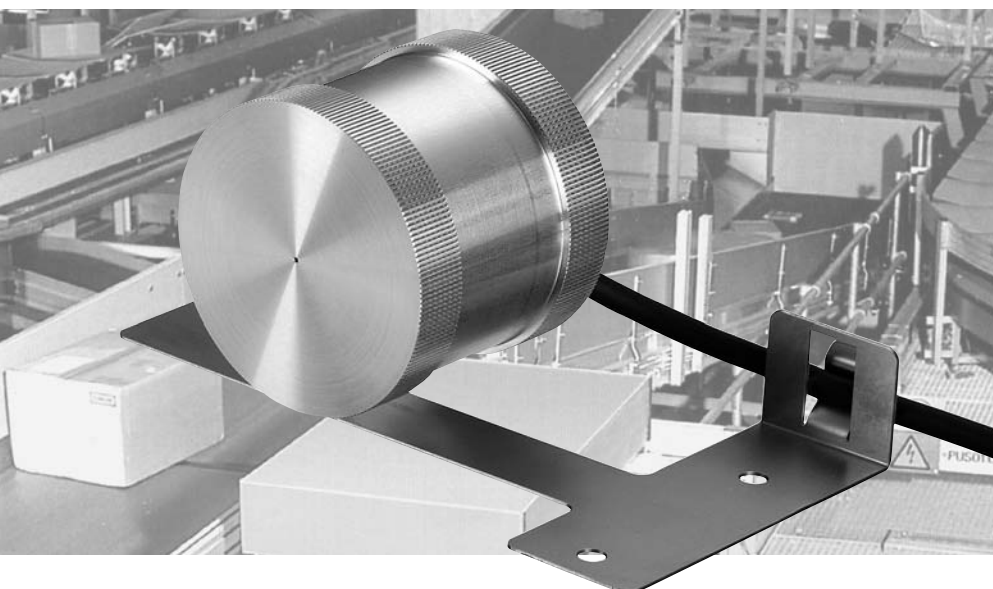
Typ	Bestell-Nr.
O-Ring SET DKV60	6032709

Leitungsdose M12, 8-polig, gerade, konfektioniert mit Leitung 8-adrig, 4 x 2 x 0,25 mm², abgeschirmt, schlepptauglich (Adapterseite)

Typ	Bestell-Nr.	Kontakte	Leitungslänge
DOL-1208-G02MAC1	6032866	8	2,0 m
DOL-1208-G05MAC1	6032867	8	5,0 m
DOL-1208-G10MAC1	6032868	8	10,0 m
DOL-1208-G20MAC1	6032869	8	20,0 m



DKV60: Incremental Measuring Wheel Encoders



The basis of the product is the DKS40 Incremental Encoder. The DKS40 and therefore the DKV60 utilise Mini-Disc technology, making the DKV60, extremely robust and resistant to shock and vibration. The DKV60 also features a high protection rating (IP 65).

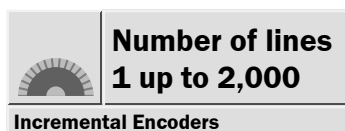
Specify your own individual Measuring Wheel Encoder!

Possible product variations:

- Interface
TTL/RS422, HTL/push-pull
- Measuring drum
Knurled surface,
'O' ring surface
- Cable outlet 1.5 m

The product versatility enables many uses, e. g. in:

- Woodworking machinery
- Steel and sheet processing machinery
- Storage and conveying technology
- Sorting systems
- Conveyor belts
- Textile machinery
- Printing and paper



UL certification not valid for all types.
See type label on the encoder.

For use in NFPA 79 applications only.
Interconnection cables and accessories
are available from SICK.

The DKV60 Incremental Measuring Wheel Encoder is a cost-effective and extremely compact solution for the direct determination of position and speed of a conveyor belt.

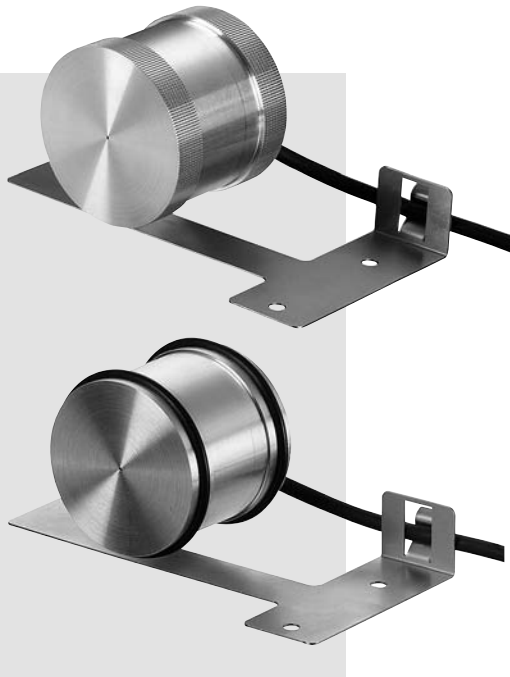
The DKV60 Incremental Measuring Wheel Encoder can be fitted directly to the conveyor belt, without the need of any mechanical accessories.



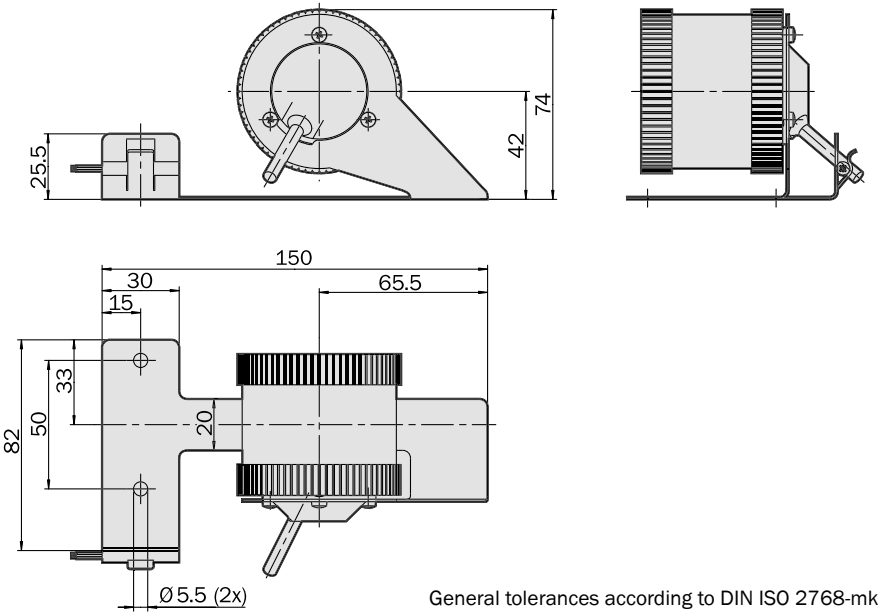
Number of lines
1 up to 2,000

Incremental Encoders

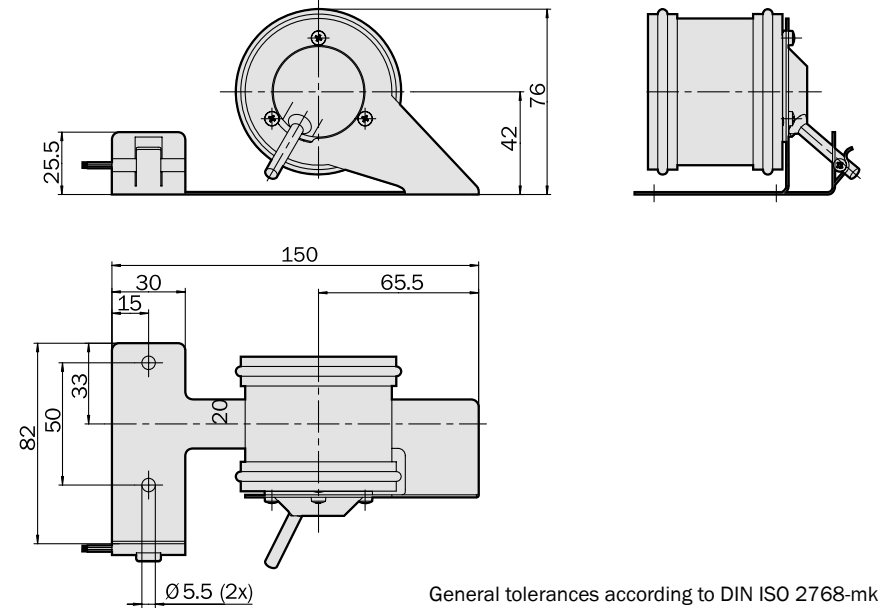
- Cable outlet
- Protection rating up to IP 65
- Electrical interfaces
TTL and HTL



Dimensional drawing DKV60 knurled surface

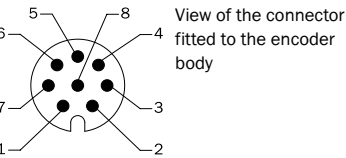


Dimensional drawing DKV60 'O' ring surface



Wire allocation/cable 8-core

8-Pin, M12 connector	Core colour	Signal TTL, HTL	Explanation
1	Brown	$\bar{A}$	Signal line
2	White	A	Signal line
3	Black	$\bar{B}$	Signal line
4	Pink	B	Signal line
5	Yellow	$\bar{Z}$	Signal line
6	Lilac	Z	Signal line
7	Blue	GND	Ground connection
8	Red	+U _S	Power supply ¹⁾
	Screen	Screen	Screen ²⁾



¹⁾ Potential free to housing
²⁾ Screen connected to Encoder housing. Connect screen on control side!

Accessories

Connection systems (page 15)

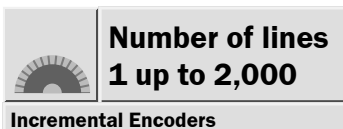
Technical Data to DIN 32878		DKV60	DKV										
Pulses per 200 mm	1 to 2,000												
Electrical interface	4.5 ... 5.5 V, TTL/RS 422, 6-channel												
	10 ... 30 V, HTL, 6-channel												
Mass	0.42 kg												
Reference signal													
Number	1												
Position	90° electr., logically linked with A and B												
Error limits													
Knurled surface	± 0.5 mm/m												
'O' ring surface	± 4 mm/m												
Max. operating speed	1,500 min ⁻¹												
Bearing lifetime	2 x 10 ⁹ revolutions												
Working temperature range	- 10 ... + 60 °C												
Storage temperature range	- 40 ... + 70 °C												
Permissible relative humidity ¹⁾	90 %												
EMC ²⁾													
Resistance													
to shocks ³⁾	50/7 g/ms												
to vibration ⁴⁾	20/10 ... 2000 g/Hz												
Protection class IEC 60529	IP 65												
Load current													
4.5 ... 5.5 V, TTL/RS 422	Max. 30 mA												
10 ... 30 V, HTL/push-pull	Max. 30 mA												
No-load operating current													
4.5 ... 5.5 V, TTL/RS 422	40 mA												
10 ... 30 V, HTL/push-pull	40 mA												
Initialisation time after power on	40 ms												

¹⁾ Condensation of the optical scanning is not permitted

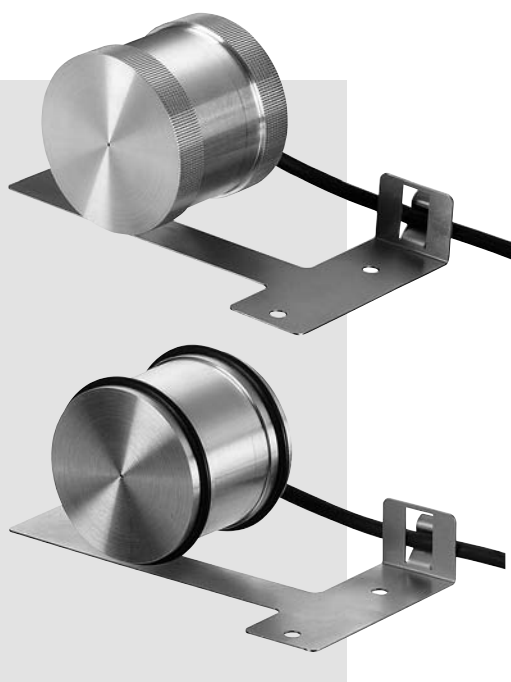
²⁾ To DIN EN 61000-6-2 and DIN EN 61000-6-3

³⁾ To DIN EN 60068-2-27

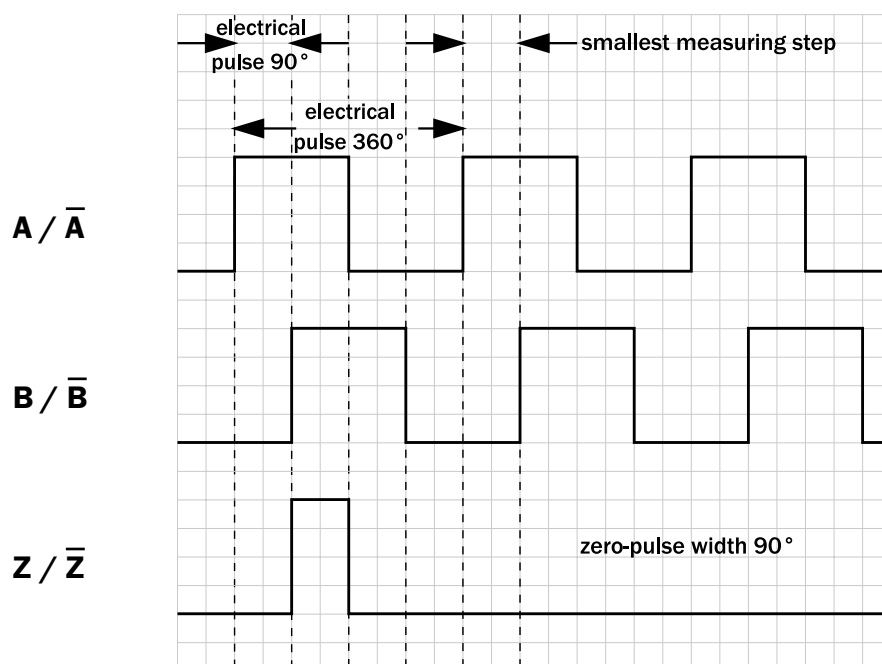
⁴⁾ To DIN EN 60068-2-6



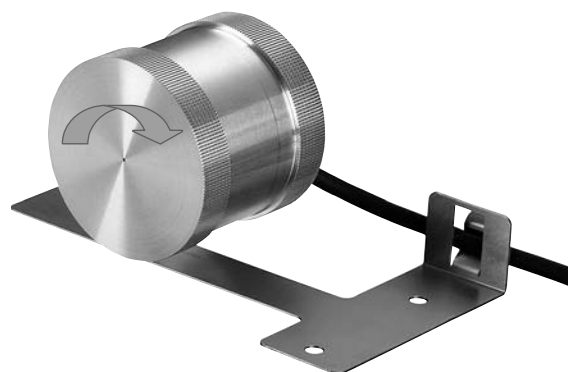
- Cable outlet
- Protection rating up to IP 65
- Electrical interfaces
TTL and HTL



Signal outputs



Cw looking at the measuring drum



Accessories

Connection systems (page 15)

Order information

Incremental Encoder DKV60

Point 1	Point 2	Point 3	Point 4	Point 5	Point 6	Point 7	Point 8	Point 9	Point 10	Point 11	Point 12	Point 13	Point 14
D	K	V	6	0	-			K					

Electrical interface 4.5 ... 5.5 V, TTL/RS 422 6-channel = A 10 ... 30 V, HTL/push-pull 6-channel = E	Mechanical version Measuring drum, knurled surface DIN82-RAA 1 = 1 Measuring drum, 'O' ring surface EPDM, Highly abrasion-resistant = 2	Connection type Cable 8-core, 1.5 m = K Cable, universal 1.5 m ¹⁾ with connector M12, 8-pin = P	Pulses per 200 mm Always 5 characters in clear text.
--	--	--	--

¹⁾ The universal cable output is positioned so that a kink-free cable run is possible in radial or axial direction.

Order example

DKV60; 4.5 ... 5.5 V, TTL/RS 422; 6-channel; Measuring drum knurled surface

Type	Part no.	Pulses/200 mm	Resolution	Smallest measuring step
DKV60-A1K00020	1035039	20	1 pulse = 10 mm	2.5 mm
DKV60-A1K00200	1035040	200	1 pulse = 1 mm	0.25 mm
DKV60-A1K01000	1035041	1000	1 pulse = 0.2 mm	0.05 mm
DKV60-A1K02000	1035042	2000	1 pulse = 0.1 mm	0.025 mm

DKV60; 4.5 ... 5.5 V, TTL/RS 422; 6-channel; Measuring drum 'O' ring surface; EPDM, Highly abrasion-resistant

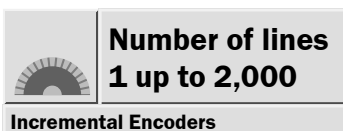
Type	Part no.	Pulses/200 mm	Resolution	Smallest measuring step
DKV60-A2K00020	1035043	20	1 pulse = 10 mm	2.5 mm
DKV60-A2K00200	1035044	200	1 pulse = 1 mm	0.25 mm
DKV60-A2K01000	1035045	1000	1 pulse = 0.2 mm	0.05 mm
DKV60-A2K02000	1035046	2000	1 pulse = 0.1 mm	0.025 mm

DKV60; 10 ... 30 V, HTL/push-pull; 6-channel; Measuring drum knurled surface

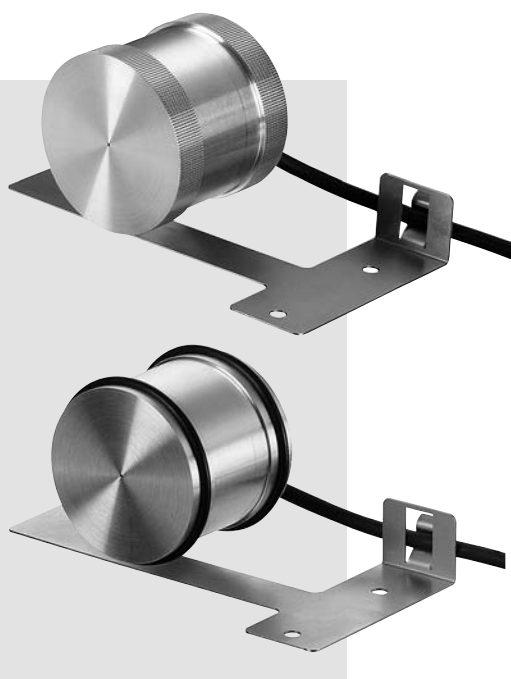
Type	Part no.	Pulses/200 mm	Resolution	Smallest measuring step
DKV60-E1K00020	1035047	20	1 pulse = 10 mm	2.5 mm
DKV60-E1K00200	1035048	200	1 pulse = 1 mm	0.25 mm
DKV60-E1K01000	1035049	1000	1 pulse = 0.2 mm	0.05 mm
DKV60-E1K02000	1035050	2000	1 pulse = 0.1 mm	0.025 mm

DKV60; 10 ... 30 V, HTL/push-pull; 6-channel; Measuring drum 'O' ring surface; EPDM, Highly abrasion-resistant

Type	Part no.	Pulses/200 mm	Resolution	Smallest measuring step
DKV60-E2K00020	1035051	20	1 pulse = 10 mm	2.5 mm
DKV60-E2K00200	1035052	200	1 pulse = 1 mm	0.25 mm
DKV60-E2K01000	1035053	1000	1 pulse = 0.2 mm	0.05 mm
DKV60-E2K02000	1035054	2000	1 pulse = 0.1 mm	0.025 mm

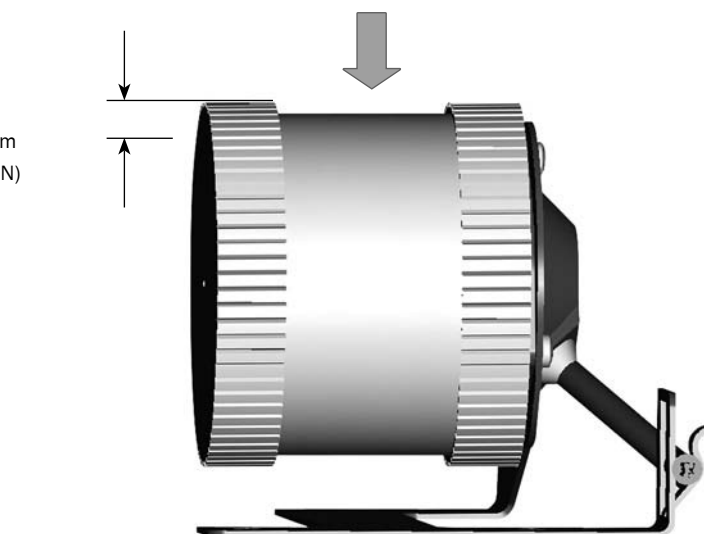


- Cable outlet
- Protection rating up to IP 65
- Electrical interfaces
TTL and HTL



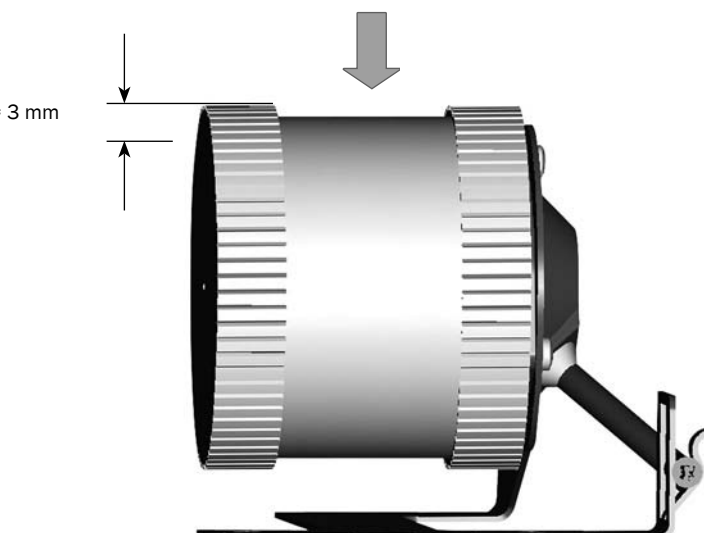
Working position/force

Working position/
force = 2 ... 5 mm
(5 ... 10 N)

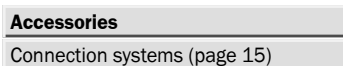
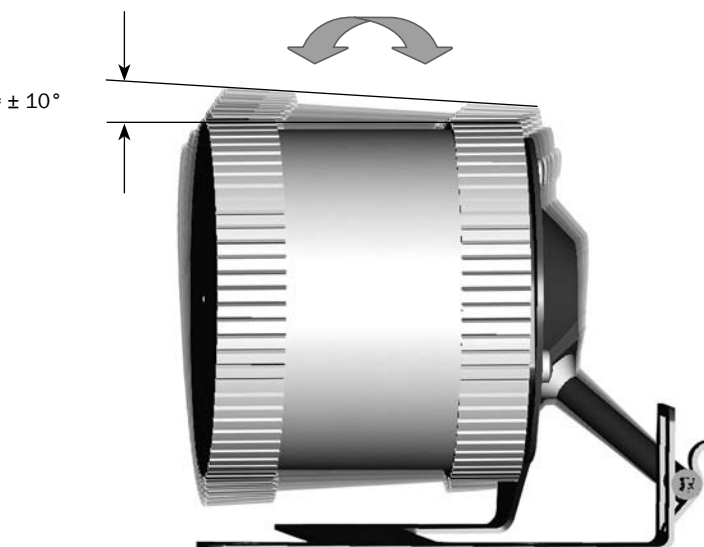


Max. deflection

Max. deflection Y = 3 mm



Max. deflection X = $\pm 10^\circ$

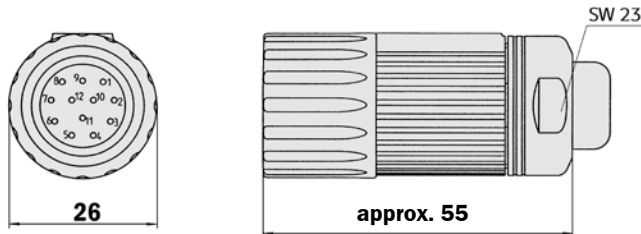


Dimensional drawings and order information

Screw-in system M23, 12-pin

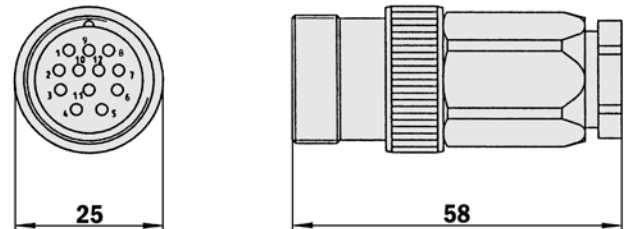
Cable connector M23 female, 12-pin, straight, screened

Type	Part no.	Contacts
DOS-2312-G	6027538	12



Cable connector M23, 12-pin, straight, screened

Type	Part no.	Contacts
STE-2312-G	6027537	12


Connector M23 female, 12-pin, straight, cable 11-cores, $4 \times 2 \times 0.25 + 2 \times 0.5 + 1 \times 0.14 \text{ mm}^2$ with screening, cable diameter 7.8 mm

Type	Part no.	Contacts	Cable length
DOL-2312-G02MLA3	2030682	12	2.0 m
DOL-2312-G07MLA3	2030685	12	7.0 m
DOL-2312-G10MLA3	2030688	12	10.0 m
DOL-2312-G15MLA3	2030692	12	15.0 m
DOL-2312-G20MLA3	2030695	12	20.0 m
DOL-2312-G25MLA3	2030699	12	25.0 m
DOL-2312-G30MLA3	2030702	12	30.0 m

Connector M23 female, 12-pin, straight, cable 12-cores, $4 \times 2 \times 0.25 + 2 \times 0.5 + 2 \times 0.14 \text{ mm}^2$ with screening, capable of being dragged, cable diameter 7.8 mm

Type	Part no.	Contacts	Cable length
DOL-2312-G1M5MA3	2029212	12	1.5 m
DOL-2312-G03MMA3	2029213	12	3.0 m
DOL-2312-G05MMA3	2029214	12	5.0 m
DOL-2312-G10MMA3	2029215	12	10.0 m
DOL-2312-G20MMA3	2029216	12	20.0 m
DOL-2312-G30MMA3	2029217	12	30.0 m

Cable 8 core, per meter, $4 \times 2 \times 0.15 \text{ mm}^2$ with screening, cable diameter 5.6 mm

Type	Part no.	Wires
LTG-2308-MWENC	6027529	8

Cable 11-core, per meter, $4 \times 2 \times 0.25 + 2 \times 0.5 + 1 \times 0.14 \text{ mm}^2$ with screening, cable diameter 7.5 mm

Type	Part no.	Wires
LTG-2411-MW	6027530	11

Cable 12 core, per meter, $4 \times 2 \times 0.25 + 2 \times 0.5 + 2 \times 0.14 \text{ mm}^2$ with screening, capable of being dragged, cable diameter 7.8 mm

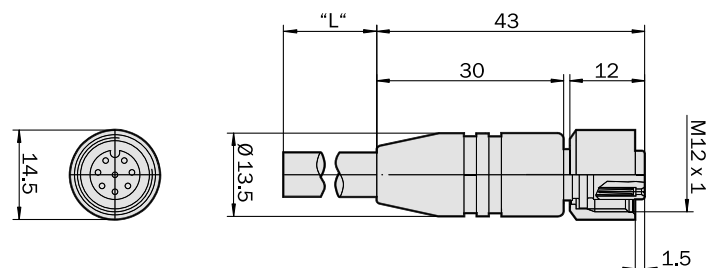
Type	Part no.	Wires	Explanation
LTG-2512-MW	6027531	12	
LTG-2612-MW	6028516	12	UV and salt water resistant

'O' ring surface EPDM (for replacement), Set (2 pieces) 55.0 x 4.0 mm

Type	Part no.
'O' ring SET DKV60	6032709

Female connector M12, 8-pin, straight, pre-wired with cable 8-wire, $4 \times 2 \times 0.25 \text{ mm}^2$, screened, flexible (adapter side)

Type	Part no.	Contacts	Cable length
DOL-1208-G02MAC1	6032866	8	2.0 m
DOL-1208-G05MAC1	6032867	8	5.0 m
DOL-1208-G10MAC1	6032868	8	10.0 m
DOL-1208-G20MAC1	6032869	8	20.0 m



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1(952) 941-6780
+1 800-325-7425 – tollfree
E-Mail info@sickusa.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +852-2763 6966
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6881000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com