



# DFV60A-22PC65536

DFV60

MEASURING WHEEL ENCODERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
DFV60A-22PC65536	1051309

Other models and accessories → [www.sick.com/DFV60](http://www.sick.com/DFV60)

Illustration may differ



### Detailed technical data

#### Features

<b>Items supplied</b>	DFV60 spring arm (part number: 2056155) not included with delivery
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#### Safety-related parameters

<b>MTTF<sub>D</sub> (mean time to dangerous failure)</b>	300 years (EN ISO 13849-1) <sup>1)</sup>
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<sup>1)</sup> This product is a standard product and does not constitute a safety component as defined in the Machinery Directive. Calculation based on nominal load of components, average ambient temperature 40°C, frequency of use 8760 h/a. All electronic failures are considered hazardous. For more information, see document no. 8015532.

#### Performance

<b>Pulses per revolution</b>	65,536
<b>Resolution in pulses/mm</b>	218.45 Pulses/mm <sup>1)</sup>
<b>Measuring increment (resolution in mm/pulse)</b>	0.005 mm/pulse <sup>2)</sup>
<b>Measuring step deviation</b>	± 0.002° <sup>3)</sup>
<b>Error limits</b>	± 4 mm/m, subject to measuring wheel (measuring wheel surface + measuring surface + ambient conditions)
<b>Initialization time</b>	30 ms

<sup>1)</sup> Calculation example: Pulses per revolution / measuring wheel circumference = 16,384 pulses per revolution / 200 mm = 81.92 pulses/mm.

<sup>2)</sup> Calculation example: Circumference of wheel / pulses per revolution = 200 mm / 16384 pulses per revolution = 0,012mm/pulse.

<sup>3)</sup> Value refers to the mounted encoder.

#### Interfaces

<b>Communication interface</b>	Incremental
<b>Communication Interface detail</b>	TTL / HTL
<b>Programmable/configurable</b>	✓

#### Electronics

<b>Connection type</b>	Male connector, M12, 8-pin, radial
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<b>Power consumption max. without load</b>	≤ 30 mA
<b>Supply voltage</b>	4.5 V ... 32 V
<b>Load current max.</b>	30 mA
<b>Maximum output frequency</b>	820 kHz
<b>Reference signal, number</b>	1
<b>Reference signal, position</b>	90°, electric, logically gated with A and B
<b>Reverse polarity protection</b>	✓
<b>Short-circuit protection of the outputs</b>	✓

## Mechanics

<b>Measuring wheel circumference</b>	300 mm
<b>Measuring wheel surface</b>	O-ring NBR70 <sup>1)</sup>
<b>Mass</b>	+ 500 g
<b>Encoder material</b>	
Shaft	Stainless steel
Flange	Aluminum
Housing	Aluminum
Cable	PUR
<b>Spring arm mechanism material</b>	
Spring element	Not contained in the scope of delivery of the system
Measuring wheel core	Aluminum
<b>Start up torque</b>	0.8 Ncm (at 20 °C)
<b>Operating torque</b>	0.6 Ncm (at 20 °C)
<b>Operating speed</b>	1,500 min <sup>-1</sup>
<b>Maximum operating speed</b>	3,000 min <sup>-1</sup> <sup>2)</sup>
<b>Bearing lifetime</b>	3 x 10 <sup>9</sup> revolutions
<b>Maximum travel/deflection of spring arm</b>	40 mm
<b>Max. permissible working area for the spring (continuous operation)</b>	± 10 mm
<b>Recommended spring deflection</b>	20 mm ... 40 mm
<b>Mounting position relative to the measuring object</b>	Preferably from above, from below possible

<sup>1)</sup> The surface of a measuring wheel is subject to wear. This depends on contact pressure, acceleration behavior in the application, traversing speed, measurement surface, mechanical alignment of the measuring wheel, temperature, and ambient conditions. We recommend you regularly check the condition of the measuring wheel and replace as required.

<sup>2)</sup> Allow for self-heating of 3.3 K per 1,000 rpm when designing the operating temperature range.

## Ambient data

<b>EMC</b>	According to EN 61000-6-2 and EN 61000-6-4
<b>Enclosure rating</b>	IP65
<b>Permissible relative humidity</b>	90 % (Condensation not permitted)
<b>Operating temperature range</b>	-20 °C ... +100 °C
<b>Storage temperature range</b>	-40 °C ... +100 °C, without package
<b>Resistance to shocks</b>	70 g, 6 ms (EN 60068-2-27)
<b>Resistance to vibration</b>	30 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)

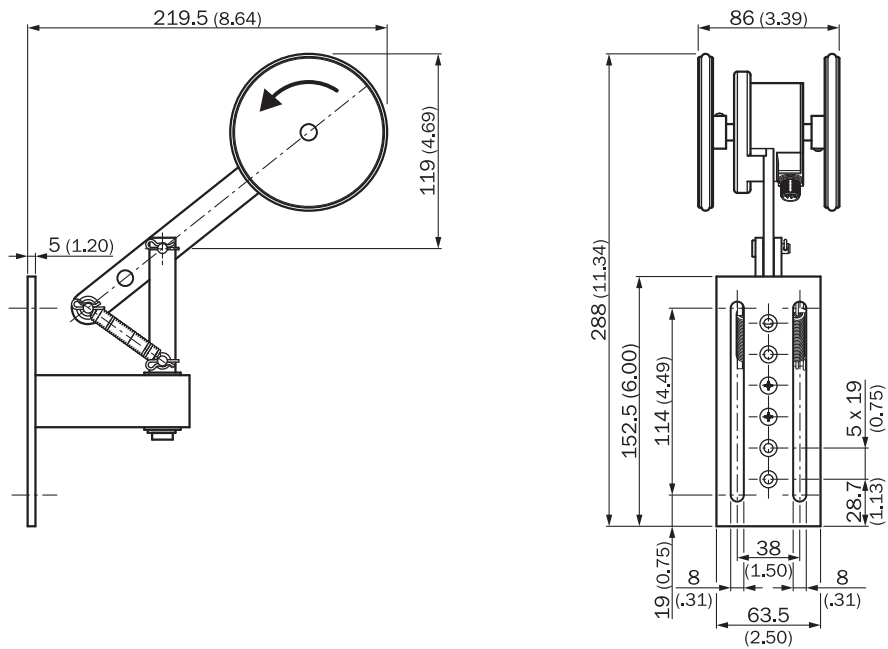
### Classifications

<b>ECLASS 5.0</b>	27270501
<b>ECLASS 5.1.4</b>	27270501
<b>ECLASS 6.0</b>	27270590
<b>ECLASS 6.2</b>	27270590
<b>ECLASS 7.0</b>	27270501
<b>ECLASS 8.0</b>	27270501
<b>ECLASS 8.1</b>	27270501
<b>ECLASS 9.0</b>	27270501
<b>ECLASS 10.0</b>	27270790
<b>ECLASS 11.0</b>	27270707
<b>ECLASS 12.0</b>	27270504
<b>ETIM 5.0</b>	EC001486
<b>ETIM 6.0</b>	EC001486
<b>ETIM 7.0</b>	EC001486
<b>ETIM 8.0</b>	EC001486
<b>UNSPSC 16.0901</b>	41112113

### Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

Dimensional drawing DFV60 spring arm (part number: 2056155) not included with delivery

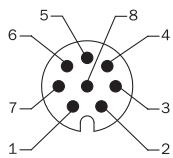


Dimensions in mm (inch)

## Anschlussbelegung

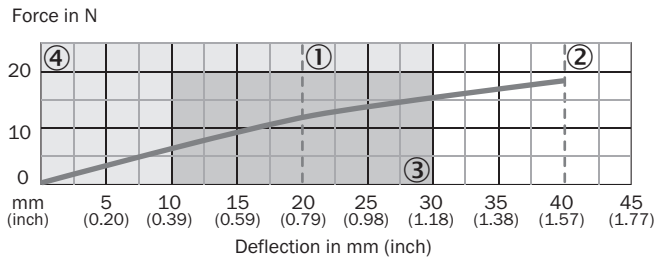
### Cable 8-core

View to the connector M12 fitted to the encoder body



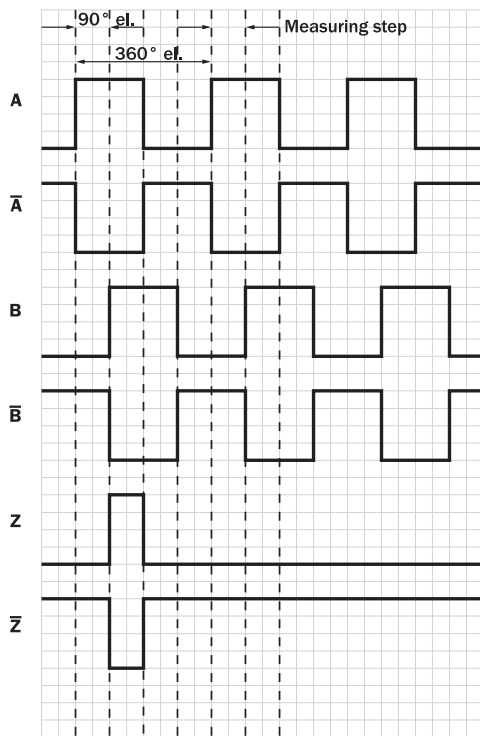
PIN, 8-pin, connector M12	Color of wires for encoders with cable outlet	Signal TTL, HTL	Explanation
1	Brown	$\bar{A}$	Signal line
2	White	A	Signal line
3	Black	$\bar{B}$	Signal line
4	Pink	B	Signal line
5	Yellow	$\bar{Z}$	Signal line
6	Lilac	Z	Signal line
7	Blue	GND	Ground connection of the encoder
8	Red	+U <sub>s</sub>	Supply voltage (potential free to housing)
Screen	Screen	Screen	Screen connected to encoder housing. On the control side connected to earth.

### Diagrams Dual wheel, spring tension, yoke mount






- ① recommended pre-tension (20 mm)
- ② maximum deflection (40 mm)
- ③ recommended deflection range (10 – 30 mm)
- ④ permissible working area (0 – 30 mm)

### Diagrams













## Recommended accessories

Other models and accessories → [www.sick.com/DFV60](http://www.sick.com/DFV60)

	Brief description	Type	part no.
measuring wheels and measuring wheel mechanics			
	<ul style="list-style-type: none"> <li>• <b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li> <li>• <b>Product:</b> Measuring wheels</li> <li>• <b>Description:</b> Aluminium measuring wheel with O-ring (NBR70) for 10 mm solid shaft, circumference 300 mm</li> </ul>	BEF-MR010030R	2049278
	<ul style="list-style-type: none"> <li>• <b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li> <li>• <b>Product:</b> Measuring wheel mechanics</li> <li>• <b>Description:</b> O-ring for measuring wheels (circumference 300 mm)</li> <li>• <b>Items supplied:</b> 2x O-ring</li> </ul>	BEF-OR-083-050	2064076
Mounting systems			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Spring arm / mounting arm for DFV60</li> </ul>	DFV60 spring arm	2056155

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, JST, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Items supplied:</b> JST including sealing</li> <li>• <b>Cable:</b> 0.5 m, 8-wire, PUR, halogen-free</li> <li>• <b>Description:</b> Incremental, shielded, SSI</li> </ul>	DOL-0J08-G0M5AA3	2046873
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, JST, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Items supplied:</b> JST including sealing</li> <li>• <b>Cable:</b> 1.5 m, 8-wire, PUR, halogen-free</li> <li>• <b>Description:</b> Incremental, shielded</li> </ul>	DOL-0J08-G1M5AA3	2046874
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, JST, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> SSI, Incremental</li> <li>• <b>Items supplied:</b> JST including sealing</li> <li>• <b>Cable:</b> 1.5 m, 8-wire, PUR, halogen-free</li> <li>• <b>Description:</b> SSI, shielded, Incremental</li> </ul>	DOL-0J08-G1M5AA6	2048590
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, JST, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Items supplied:</b> JST including sealing</li> <li>• <b>Cable:</b> 10 m, 8-wire, PUR, halogen-free</li> <li>• <b>Description:</b> Incremental, shielded, SSI</li> </ul>	DOL-0J08-G10MAA3	2046877
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Female connector, JST, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> SSI, Incremental</li> <li>• <b>Items supplied:</b> JST including sealing</li> <li>• <b>Cable:</b> 3 m, 8-wire, PUR, halogen-free</li> <li>• <b>Description:</b> SSI, shielded, Incremental</li> </ul>	DOL-0J08-G3M0AA6	2048591
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded, SSI</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Cable:</b> 2 m, 8-wire, PUR, halogen-free</li> <li>• <b>Connection systems:</b> Flying leads</li> <li>• <b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	DOL-1208-G02MAC1	6032866
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded, SSI</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Cable:</b> 5 m, 8-wire, PUR, halogen-free</li> <li>• <b>Connection systems:</b> Flying leads</li> <li>• <b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	DOL-1208-G05MAC1	6032867
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded, SSI</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Cable:</b> 10 m, 8-wire, PUR, halogen-free</li> <li>• <b>Connection systems:</b> Flying leads</li> <li>• <b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	DOL-1208-G10MAC1	6032868
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded, SSI</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Cable:</b> 20 m, 8-wire, PUR, halogen-free</li> <li>• <b>Connection systems:</b> Flying leads</li> <li>• <b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	DOL-1208-G20MAC1	6032869
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded, SSI</li> <li>• <b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental, SSI</li> <li>• <b>Cable:</b> 25 m, 8-wire, PUR, halogen-free</li> <li>• <b>Connection systems:</b> Flying leads</li> <li>• <b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	DOL-1208-G25MAC1	6067859
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> </ul>	DOL-2312-G02MLA3	2030682

	Brief description	Type	part no.
	<ul style="list-style-type: none"> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 2 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>		
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 3 m, 12-wire, PUR, halogen-free</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G03MMA3	2029213
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 5 m, 12-wire, PUR, halogen-free</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G05MMA3	2029214
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 7 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G07MLA3	2030685
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 1.5 m, 12-wire, PUR, halogen-free</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G1M5MA3	2029212
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 10 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G10MLA3	2030688
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 10 m, 12-wire, PUR, halogen-free</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G10MMA3	2029215
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 15 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G15MLA3	2030692
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 20 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G20MLA3	2030695
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 20 m, 12-wire, PUR, halogen-free</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G20MMA3	2029216
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 25 m, 11-wire, PUR</li> <li>• <b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G25MLA3	2030699
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Incremental, shielded</li> <li>• <b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li>• <b>Connection type head B:</b> Flying leads</li> <li>• <b>Signal type:</b> Incremental</li> <li>• <b>Cable:</b> 30 m, 11-wire, PUR</li> </ul>	DOL-2312-G30MLA3	2030702

	Brief description	Type	part no.
	<ul style="list-style-type: none"> <li><b>Application:</b> Zones with oils and lubricants</li> <li><b>Description:</b> Incremental, shielded</li> <li><b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Incremental</li> <li><b>Cable:</b> 30 m, 12-wire, PUR, halogen-free</li> <li><b>Application:</b> Zones with oils and lubricants</li> </ul>	DOL-2312-G30MMA3	2029217
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Flying leads</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> SSI, Incremental, HIPERFACE®</li> <li><b>Items supplied:</b> By the meter</li> <li><b>Cable:</b> 8-wire, PUR, halogen-free</li> <li><b>Description:</b> SSI, shielded, Incremental, HIPERFACE®</li> </ul>	LTG-2308-MWENC	6027529
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Flying leads</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> SSI, Incremental</li> <li><b>Items supplied:</b> By the meter</li> <li><b>Cable:</b> 11-wire, PUR</li> <li><b>Description:</b> SSI, shielded, Incremental</li> </ul>	LTG-2411-MW	6027530
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Flying leads</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> SSI, Incremental</li> <li><b>Items supplied:</b> By the meter</li> <li><b>Cable:</b> 12-wire, PUR, halogen-free</li> <li><b>Description:</b> SSI, shielded, Incremental</li> </ul>	LTG-2512-MW	6027531
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Flying leads</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> SSI, TTL, HTL, Incremental</li> <li><b>Items supplied:</b> By the meter</li> <li><b>Cable:</b> 12-wire, UV and saltwater-resistant, PUR, halogen-free</li> <li><b>Description:</b> SSI, shielded, TTL, HTL, Incremental</li> </ul>	LTG-2612-MW	6028516
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, terminal box, 8-pin, straight</li> <li><b>Connection type head B:</b> Male connector, D-Sub, 9-pin, straight</li> <li><b>Signal type:</b> SSI + incremental</li> <li><b>Cable:</b> 0.5 m, 4-wire, PVC</li> <li><b>Description:</b> SSI + incremental, shielded</li> <li><b>Note:</b> Programming adapter cable for programming tool PGT-10-Pro and PGT-08-S</li> </ul>	DSL-0D08-G0M5AC3	2061739
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight</li> <li><b>Connection type head B:</b> Male connector, D-Sub, 9-pin, straight</li> <li><b>Signal type:</b> Incremental</li> <li><b>Cable:</b> 0.5 m, 8-wire</li> <li><b>Description:</b> Incremental, shielded</li> <li><b>Note:</b> Programming adapter cable for programming tool PGT-10-Pro and PGT-08-S</li> </ul>	DSL-2D08-G0M5AC3	2046579
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M23, 12-pin, straight</li> <li><b>Connection type head B:</b> Male connector, D-Sub, 9-pin, straight</li> <li><b>Signal type:</b> Incremental</li> <li><b>Cable:</b> 0.5 m, 8-wire</li> <li><b>Description:</b> Incremental, shielded</li> <li><b>Note:</b> Programming adapter cable for programming tool PGT-10-Pro and PGT-08-S</li> </ul>	DSL-3D08-G0M5AC3	2046580
programming devices			
	<ul style="list-style-type: none"> <li><b>Product segment:</b> Programming devices</li> <li><b>Product:</b> PGT-08-S</li> <li><b>Description:</b> USB programming unit, for programmable SICK encoders AFS60, AFM60, DFS60, VFS60, DFV60 and wire draw encoders with programmable encoders. Not compatible with the portable SOPAS ET versions.</li> </ul>	PGT-08-S	1036616
	<ul style="list-style-type: none"> <li><b>Product segment:</b> Programming devices</li> <li><b>Product:</b> PGT-10 Pro</li> <li><b>Description:</b> Programming unit display for programmable SICK DFS60, DFV60, AFS/AFM60, AHS/AHM36 encoders, and wire draw encoder with DFS60, AFS/AFM60 and AHS/AHM36. Compact dimensions, low weight, and intuitive operation.</li> <li><b>Items supplied:</b> 1 x PGT-10-Pro stand-alone programming tool, 4 x alkaline type batteries, 1.5 V Mignon (AA)</li> </ul>	PGT-10-Pro	1072254

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)