



DFS60E-S1UA02048

DFS60

INCREMENTAL ENCODERS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	part no.
DFS60E-S1UA02048	1059637

Other models and accessories → www.sick.com/DFS60

Detailed technical data

Safety-related parameters

MTTF_D (mean time to dangerous failure)	300 years (EN ISO 13849-1) ¹⁾
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¹⁾ 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

Pulses per revolution	2,048 ¹⁾
Measuring step	90°, electric/pulses per revolution
Measuring step deviation at binary number of lines	± 0.15°
Error limits	± 0.3°

¹⁾ See maximum revolution range.

Interfaces

Communication interface	Incremental
Communication Interface detail	TTL / RS-422
Number of signal channels	6-channel
0-set function via hardware pin	✓
0-SET function	H-active, L = 0 - 3 V, H = 4,0 - U _S V ¹⁾
Initialization time	30 ms
Output frequency	≤ 300 kHz
Load current	≤ 30 mA
Operating current	40 mA (without load)

¹⁾ Only with devices with M23 connector in connection with electrical interfaces M, U, V and W.

Electronics

Connection type	Male connector, M23, 12-pin, radial
Supply voltage	4.5 ... 5.5 V
Reference signal, number	1
Reference signal, position	90 °, electric, logically gated with A and B

Mechanics

Mechanical design	Solid shaft, Servo flange
Shaft diameter	6 mm With flat
Shaft length	10 mm
Weight	+ 0.3 kg
Shaft material	Stainless steel
Flange material	Aluminum
Housing material	Aluminum die cast
Start up torque	0.5 Ncm (+20 °C)
Operating torque	0.3 Ncm (+20 °C)
Permissible shaft loading	80 N (radial) 40 N (axial)
Operating speed	≤ 9,000 min ⁻¹ ¹⁾
Moment of inertia of the rotor	6.2 gcm ²
Bearing lifetime	3.6 x 10 ¹⁰ revolutions
Angular acceleration	≤ 500,000 rad/s ²

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

Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP67, Housing side, male connector (IEC 60529) ¹⁾ IP65, shaft side (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	0 °C ... +85 °C
Storage temperature range	-40 °C ... +100 °C, without package
Resistance to shocks	50 g, 6 ms (EN 60068-2-27)
Resistance to vibration	20 g, 10 Hz ... 2,000 Hz (EN 60068-2-6)

¹⁾ With mating connector fitted.

Certificates

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

ECLASS 5.0	27270501
ECLASS 5.1.4	27270501
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270501
ECLASS 8.0	27270501
ECLASS 8.1	27270501
ECLASS 9.0	27270501
ECLASS 10.0	27270501
ECLASS 11.0	27270501
ECLASS 12.0	27270501
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

Technical drawing of a mechanical part, showing three views: front view, side view, and top view. The drawing includes dimensions, tolerances, and surface finish requirements.

Front View Dimensions:

- Overall length: 58 ± 0.1 (2.28)
- Distance from front face to center of first hole: 51.5 ± 0.2 (2.03)
- Distance from front face to center of second hole: $\varnothing 50$ (1.97) f8
- Distance from front face to center of third hole: $\varnothing 6$ (0.24) f7
- Distance from front face to center of fourth hole: 9.5 (0.37)
- Distance from front face to center of fifth hole: 10 ± 0.3 (0.39)
- Distance from front face to center of sixth hole: 14.5 (0.57)
- Distance from front face to center of seventh hole: 7.75 (0.31)
- Distance from front face to center of eighth hole: 10 ± 0.1 (0.39)
- Distance from front face to center of ninth hole: 40.1 (1.58)
- Distance from front face to center of tenth hole: 42 ± 0.05 (1.65)
- Distance from front face to center of eleventh hole: 44.5 (1.75)
- Distance from front face to center of twelfth hole: 46.5 (1.83)
- Distance from front face to center of thirteenth hole: 48.5 (1.91)
- Distance from front face to center of fourteenth hole: 50.5 (1.99)
- Distance from front face to center of fifteenth hole: 52.5 (2.07)
- Distance from front face to center of sixteenth hole: 54.5 (2.15)
- Distance from front face to center of seventeenth hole: 56.5 (2.23)
- Distance from front face to center of eighteenth hole: 58.5 (2.31)
- Distance from front face to center of nineteenth hole: 60.5 (2.39)
- Distance from front face to center of twentieth hole: 62.5 (2.47)
- Distance from front face to center of twenty-first hole: 64.5 (2.55)
- Distance from front face to center of twenty-second hole: 66.5 (2.63)
- Distance from front face to center of twenty-third hole: 68.5 (2.71)
- Distance from front face to center of twenty-fourth hole: 70.5 (2.79)
- Distance from front face to center of twenty-fifth hole: 72.5 (2.87)
- Distance from front face to center of twenty-sixth hole: 74.5 (2.95)
- Distance from front face to center of twenty-seventh hole: 76.5 (3.03)
- Distance from front face to center of twenty-eighth hole: 78.5 (3.11)
- Distance from front face to center of twenty-ninth hole: 80.5 (3.19)
- Distance from front face to center of thirtieth hole: 82.5 (3.27)
- Distance from front face to center of thirty-first hole: 84.5 (3.35)
- Distance from front face to center of thirty-second hole: 86.5 (3.43)
- Distance from front face to center of thirty-third hole: 88.5 (3.51)
- Distance from front face to center of thirty-fourth hole: 90.5 (3.59)
- Distance from front face to center of thirty-fifth hole: 92.5 (3.67)
- Distance from front face to center of thirty-sixth hole: 94.5 (3.75)
- Distance from front face to center of thirty-seventh hole: 96.5 (3.83)
- Distance from front face to center of thirty-eighth hole: 98.5 (3.91)
- Distance from front face to center of thirty-ninth hole: 100.5 (3.99)
- Distance from front face to center of fortieth hole: 102.5 (4.07)
- Distance from front face to center of forty-first hole: 104.5 (4.15)
- Distance from front face to center of forty-second hole: 106.5 (4.23)
- Distance from front face to center of forty-third hole: 108.5 (4.31)
- Distance from front face to center of forty-fourth hole: 110.5 (4.39)
- Distance from front face to center of forty-fifth hole: 112.5 (4.47)
- Distance from front face to center of forty-sixth hole: 114.5 (4.55)
- Distance from front face to center of forty-seventh hole: 116.5 (4.63)
- Distance from front face to center of forty-eighth hole: 118.5 (4.71)
- Distance from front face to center of forty-ninth hole: 120.5 (4.79)
- Distance from front face to center of fiftieth hole: 122.5 (4.87)
- Distance from front face to center of fifty-first hole: 124.5 (4.95)
- Distance from front face to center of fifty-second hole: 126.5 (5.03)
- Distance from front face to center of fifty-third hole: 128.5 (5.11)
- Distance from front face to center of fifty-fourth hole: 130.5 (5.19)
- Distance from front face to center of fifty-fifth hole: 132.5 (5.27)
- Distance from front face to center of fifty-sixth hole: 134.5 (5.35)
- Distance from front face to center of fifty-seventh hole: 136.5 (5.43)
- Distance from front face to center of fifty-eighth hole: 138.5 (5.51)
- Distance from front face to center of fifty-ninth hole: 140.5 (5.59)
- Distance from front face to center of sixtyth hole: 142.5 (5.67)
- Distance from front face to center of sixty-first hole: 144.5 (5.75)
- Distance from front face to center of sixty-second hole: 146.5 (5.83)
- Distance from front face to center of sixty-third hole: 148.5 (5.91)
- Distance from front face to center of sixty-fourth hole: 150.5 (5.99)
- Distance from front face to center of sixty-fifth hole: 152.5 (6.07)
- Distance from front face to center of sixty-sixth hole: 154.5 (6.15)
- Distance from front face to center of sixty-seventh hole: 156.5 (6.23)
- Distance from front face to center of sixty-eighth hole: 158.5 (6.31)
- Distance from front face to center of sixty-ninth hole: 160.5 (6.39)
- Distance from front face to center of seventieth hole: 162.5 (6.47)
- Distance from front face to center of seventy-first hole: 164.5 (6.55)
- Distance from front face to center of seventy-second hole: 166.5 (6.63)
- Distance from front face to center of seventy-third hole: 168.5 (6.71)
- Distance from front face to center of seventy-fourth hole: 170.5 (6.79)
- Distance from front face to center of seventy-fifth hole: 172.5 (6.87)
- Distance from front face to center of seventy-sixth hole: 174.5 (6.95)
- Distance from front face to center of seventy-seventh hole: 176.5 (7.03)
- Distance from front face to center of seventy-eighth hole: 178.5 (7.11)
- Distance from front face to center of seventy-ninth hole: 180.5 (7.19)
- Distance from front face to center of eightieth hole: 182.5 (7.27)
- Distance from front face to center of eighty-first hole: 184.5 (7.35)
- Distance from front face to center of eighty-second hole: 186.5 (7.43)
- Distance from front face to center of eighty-third hole: 188.5 (7.51)
- Distance from front face to center of eighty-fourth hole: 190.5 (7.59)
- Distance from front face to center of eighty-fifth hole: 192.5 (7.67)
- Distance from front face to center of eighty-sixth hole: 194.5 (7.75)
- Distance from front face to center of eighty-seventh hole: 196.5 (7.83)
- Distance from front face to center of eighty-eighth hole: 198.5 (7.91)
- Distance from front face to center of eighty-ninth hole: 200.5 (7.99)
- Distance from front face to center of ninetieth hole: 202.5 (8.07)
- Distance from front face to center of one hundredth hole: 204.5 (8.15)
- Distance from front face to center of one hundred and first hole: 206.5 (8.23)
- Distance from front face to center of one hundred and second hole: 208.5 (8.31)
- Distance from front face to center of one hundred and third hole: 210.5 (8.39)
- Distance from front face to center of one hundred and fourth hole: 212.5 (8.47)
- Distance from front face to center of one hundred and fifth hole: 214.5 (8.55)
- Distance from front face to center of one hundred and sixth hole: 216.5 (8.63)
- Distance from front face to center of one hundred and seventh hole: 218.5 (8.71)
- Distance from front face to center of one hundred and eighth hole: 220.5 (8.79)
- Distance from front face to center of one hundred and ninth hole: 222.5 (8.87)
- Distance from front face to center of one hundred and tenth hole: 224.5 (8.95)
- Distance from front face to center of one hundred and eleventh hole: 226.5 (9.03)
- Distance from front face to center of one hundred and twelfth hole: 228.5 (9.11)
- Distance from front face to center of one hundred and thirteenth hole: 230.5 (9.19)
- Distance from front face to center of one hundred and fourteenth hole: 232.5 (9.27)
- Distance from front face to center of one hundred and fifteenth hole: 234.5 (9.35)
- Distance from front face to center of one hundred and sixteenth hole: 236.5 (9.43)
- Distance from front face to center of one hundred and seventeenth hole: 238.5 (9.51)
- Distance from front face to center of one hundred and eighteenth hole: 240.5 (9.59)
- Distance from front face to center of one hundred and nineteenth hole: 242.5 (9.67)
- Distance from front face to center of one hundred and twentieth hole: 244.5 (9.75)
- Distance from front face to center of one hundred and twenty-first hole: 246.5 (9.83)
- Distance from front face to center of one hundred and twenty-second hole: 248.5 (9.91)
- Distance from front face to center of one hundred and twenty-third hole: 250.5 (9.99)
- Distance from front face to center of one hundred and twenty-fourth hole: 252.5 (10.07)

4 INCREMENTAL ENCODERS | SICK

Mounting requirements for half-shell servo clamp



All dimensions in mm (inch)
part no. 2029165

Mounting requirements for small servo clamp



All dimensions in mm (inch)
part no. 2029166

PIN assignment



view of M23 male device connector on encoder

PINMale connector M12, 8-pin	PINMale connector M23, 12-pin	Wire colors (cable connection)	TTL/HTL signal	Sin/Cos 1.0 V _{PP}	Explanation
1	6	Brown	$\bar{A}$	COS-	Signal wire
2	5	White	A	COS+	Signal wire
3	1	Black	$\bar{B}$	SIN-	Signal wire
4	8	Pink	B	SIN+	Signal wire
5	4	Yellow	$\bar{Z}$	$\bar{Z}$	Signal wire

PINMale connector M12, 8-pin	PINMale connector M23, 12-pin	Wire colors (cable connection)	TTL/HTL signal	Sin/Cos 1.0 V _{PP}	Explanation
6	3	Purple	Z	Z	Signal wire
7	10	Blue	GND	GND	Ground connection
8	12	Red	+U _S	+U _S	Supply voltage
-	9	-	N.c.	N.c.	Not assigned
-	2	-	N.c.	N.c.	Not assigned
-	11	-	N.c.	N.c.	Not assigned
-	7 ¹⁾	Orange	0-SET ¹⁾	N.c.	Set zero pulse ¹⁾
Screen	Screen	Screen	Screen	Screen	Screen connected to housing on encoder side. Connected to ground on control side.

¹⁾For electrical interfaces only: M, U, V, W with 0-SET function on PIN 7 on M23 plug. The 0-SET input is used to set the zero pulse to the current shaft position. If the 0-SET input is applied to U_S for longer than 250 ms after it has previously been open or applied to GND for at least 1,000 ms, the current shaft position is assigned zero pulse signal "Z".

maximum revolution range



signal outputs



CW with view on the encoder shaft in direction "A", compare dimensional drawing.

Supply voltage	Output
4,5 V ... 5,5 V	TTL
10 V ... 32 V	TTL
10 V ... 32 V	HTL

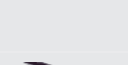
Recommended accessories

Other models and accessories → www.sick.com/DFS60

	Brief description	Type	part no.
shaft adaptation			
	Product segment: Shaft adaptation Product: Shaft couplings Description: Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular $\pm 4^\circ$; max. speed 10,000 rpm, -30°C to $+120^\circ\text{C}$, max. torque 120 Ncm; material: stainless steel bellows, aluminum hub	KUP-0610-B	5312982
	Product segment: Shaft adaptation Product: Shaft couplings Description: Double loop coupling, shaft diameter 6 mm / 10 mm, max. shaft offset: radially ± 2.5 mm, axially ± 3 mm, angle ± 10 degrees; max. speed 3,000 rpm, -30 to $+80$ degrees Celsius, torsional spring stiffness of 25 Nm/rad	KUP-0610-D	5326697
	Product segment: Shaft adaptation Product: Shaft couplings Description: Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radial ± 0.3 mm, axial ± 0.4 mm, angular $\pm 2.5^\circ$; max. speed 12,000 rpm, -10° to $+80^\circ\text{C}$, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin	KUP-0610-F	5312985
	Product segment: Shaft adaptation Product: Shaft couplings Description: Bar coupling, shaft diameter 6 mm / 10 mm, max. shaft offset: radial ± 0.3 mm, axial ± 0.3 mm, angular $\pm 3^\circ$; max. speed 10,000 rpm, -10° to $+80^\circ\text{C}$, max. torque: 80 Ncm, material: fiber-glass reinforced polyamide, aluminum hub	KUP-0610-S	2056407
	Product segment: Shaft adaptation Product: Shaft couplings Description: Claw coupling, shaft diameter 6 mm / 10 mm, damping element 80 shore blue, maximum shaft offset: radial ± 0.22 mm, axial ± 1 mm angular $\pm 1.3^\circ$, max. speed 19,000 rpm, angle of twist max. 10°, -30°C to $+80^\circ\text{C}$, max. torque 800 Ncm, tightening torque of screws: ISO 4029 150 Ncm, material: aluminum flange, damping element: polyurethane	KUP-0610-J	2127056
	Product segment: Shaft adaptation Product: Shaft couplings Description: Bar coupling, shaft diameter 6 mm / 8 mm, maximum shaft offset radial ± 0.3 mm, axial ± 0.2 mm, angle $\pm 3^\circ$, max. speed 10,000 rpm, torsion spring rigidity 38 Nm/wheel; material: fiber-glass reinforced polyamide, aluminum hub	KUP-0608-S	5314179
	Product segment: Shaft adaptation Product: Shaft couplings Description: Cross-slotted coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.3 mm, axial ± 0.2 mm, angle $\pm 3^\circ$; max. speed 10,000 rpm, -10° to $+80^\circ\text{C}$, max. torque 80 Ncm; material: fiber-glass reinforced polyamide, aluminum hub	KUP-0606-S	2056406
	Product segment: Shaft adaptation Product: Shaft couplings Description: Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular $\pm 4^\circ$; max. speed 10,000 rpm, -30°C to $+120^\circ\text{C}$, max. torque 120 Ncm; material: stainless steel bellows, aluminum hub	KUP-0606-B	5312981

	Brief description	Type	part no.
measuring wheels and measuring wheel mechanics			
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminum measuring wheel with studded polyurethane surface for 6 mm solid shaft, circumference 200 mm	BEF-MR06200APN	4084747
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminium measuring wheel with O-ring (NBR70) for 6 mm solid shaft, circumference 200 mm	BEF-MR006020R	2055222
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Measuring wheel with O-ring (NBR70) for 6 mm solid shaft, circumference 300 mm	BEF-MR006030R	2055634
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminium measuring wheel with O-ring (NBR70) for 6 mm solid shaft, circumference 500 mm	BEF-MR006050R	2055225
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminum measuring wheel with cross-knurled surface for 6 mm solid shaft, circumference 200 mm	BEF-MR06200AK	4084745
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminum measuring wheel with smooth polyurethane surface for 6 mm solid shaft, circumference 200 mm	BEF-MR06200AP	4084746
	Product segment: Measuring wheels and measuring wheel mechanics Product family: Measuring wheels Description: Aluminum measuring wheel with ridged polyurethane surface for 6 mm solid shaft, circumference 200 mm	BEF-MR06200APG	4084748

	Brief description	Type	part no.
Mounting systems			
	Description: Bearing block for servo and face mount flange encoder. The heavy-duty bearing block is used to absorb very large radial and axial shaft loads. Particularly when using belt pulleys, chain sprockets, friction wheels. Operating speed max. 4,000 rpm⁻¹, axial shaft load 150 N, radial shaft load 250 N, bearing service life 3.6 x 10⁹ revolutions	BEF-FA-LB1210	2044591
	Description: Mounting kit for servo flange encoder on the bearing block, 1 bar coupling SKPS 1520 06/06 1 hexagon socket wrench SW1.5 DIN 911, 3 mounting eccentric BEMN 1242 49 3 screws M4 x 10 DIN 912, 1 hexagon socket wrench SW3 DIN 911 Items supplied: 1 bar coupling SKPS 1520 06/06 1 hexagon socket wrench SW1.5 DIN 911, 3 mounting eccentric BEMN 1242 49 3 screws M4 x 10 DIN 912, 1 hexagon socket wrench SW3 DIN 911	BEF-MK-LB	5320872
	Description: Servo clamps, large, for servo flange (clamps, eccentric fastener), 3 pcs, without mounting material Items supplied: Without mounting hardware	BEF-WK-SF	2029166
	Description: Mounting bell for encoder with servo flange, 50 mm spigot Items supplied: Mounting kit included	BEF-MG-50	5312987

	Brief description	Type	part no.
connectors and cables			
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 15 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G15MLD1	2062205
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 2 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G02MLD1	2062202
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 7 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G07MLD1	2062203
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 10 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G10MLD1	2062204
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 20 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G20MLD1	2062206
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 25 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G25MLD1	2062207
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 30 m, 11-wire, PUR Description: Incremental, shielded	DOL-2312-G30MLD1	2062208
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 1.5 m, 12-wire, PUR, halogen-free Description: Incremental, shielded	DOL-2312-G1M5MD1	2062240
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 3 m, 12-wire, PUR, halogen-free Description: Incremental, shielded	DOL-2312-G03MMD1	2062243
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 5 m, 12-wire, PUR, halogen-free Description: Incremental, shielded	DOL-2312-G05MMD1	2062244
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 10 m, 12-wire, PUR, halogen-free Description: Incremental, shielded	DOL-2312-G10MMD1	2062245
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 20 m, 12-wire, PUR, halogen-free Description: Incremental, shielded	DOL-2312-G20MMD1	2062246
	Connection type head A: Female connector, M23, 12-pin, straight Connection type head B: Flying leads Signal type: Incremental Cable: 30 m, 12-wire, PUR, halogen-free	DOL-2312-G30MMD1	2062247

	Brief description	Type	part no.
	• Description: Incremental, shielded • Connection type head A: Female connector, M23, 12-pin, straight, A-coded • Signal type: HIPERFACE[®], SSI, Incremental • Description: HIPERFACE[®], shieldedSSIIncremental • Connection systems: Solder connection	DOS-2312-G02	2077057
	• Connection type head A: Female connector, M23, 12-pin, angled, A-coded • Signal type: HIPERFACE[®], SSI, Incremental • Description: HIPERFACE[®], shieldedSSIIncremental • Connection systems: Solder connection	DOS-2312-W01	2072580

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.”

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Contacts and other locations –www.sick.com