

INCREMENTAL ENCODERS



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Ordering information

Туре	Part no.
DBS60E-TEEP01024	1075741

Other models and accessories -> www.sick.com/DBS60

Illustration may differ

Detailed technical data

Performance

Pulses per revolution	1,024
Measuring step	\leq 90°, electric/pulses per revolution
Measuring step deviation	± 18° / pulses per revolution
Error limits	Measuring step deviation x 3
Duty cycle	≤ 0.5 ± 5 %

Interfaces

Communication interface	Incremental
Communication Interface detail	HTL / Push pull
Number of signal channels	6-channel
Initialization time	< 5 ms ¹⁾
Output frequency	+ 300 kHz ²⁾
Load current	≤ 30 mA, per channel
Power consumption	\leq 1 W (without load)

¹⁾ Valid signals can be read once this time has elapsed.

 $^{2)}\,\rm Up$ to 450 kHz on request.

Electrical data

Connection type	Cable, 8-wire, with male connector, M12, 8-pin, universal, 0.5 m $^{1)}$
Supply voltage	10 27 V
Reference signal, number	1
Reference signal, position	90°, electric, logically gated with A and B
Reverse polarity protection	✓
Short-circuit protection of the outputs	✓ ²)
MTTFd: mean time to dangerous failure	500 years (EN ISO 13849-1) ³⁾

 $^{1)}$ The universal cable connection is positioned so that it is possible to lay it without bends in a radial or axial direction.

 $^{\rm 2)}$ Short-circuit opposite to another channel, US or GND permissable for maximum 30 s.

³⁾ 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.

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Mechanical data

Mechanical design	Through hollow shaft, Front clamp		
Shaft diameter	12 mm		
Flange type / stator coupling	2-sided stator coupling, slot, screw hole circle 63-83 mm		
Weight	+ 0.25 kg ¹⁾		
Shaft material	Stainless steel		
Flange material	Aluminum		
Housing material	Aluminum		
Material, cable	PVC		
Start up torque	+ 0.5 Ncm (+20 °C)		
Operating torque	0.4 Ncm (+20 °C)		
Permissible movement static	\pm 0.3 mm (radial) \pm 0.5 mm (axial) ²⁾		
Permissible movement dynamic	\pm 0.1 mm (radial) \pm 0.2 mm (axial) ²⁾		
Operating speed	6,000 min ^{-1 3)}		
Maximum operating speed	9,000 min ^{-1 4)}		
Moment of inertia of the rotor	50 gcm ²		
Bearing lifetime	3.6 x 10 ⁹ revolutions		

 $^{\left(1\right) }$ Based on encoder with male connector or cable with male connector.

 $^{2)}\,\mathrm{Not}$ apllicable for stator coupling type C and K.

 $^{3)}$ Allow for self-heating of 2.6 K per 1,000 rpm when designing the operating temperature range.

⁴⁾ Maximum speed which does not cause mechanical damage to the encoder. Impact on the service life and signal quality is possible. Please note the maximum output frequency.

Ambient data

EMC	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP65, housing side (IEC 60529) ¹⁾ IP65, shaft side (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	-20 °C +85 °C ²⁾
Storage temperature range	-40 °C +100 °C, without package
Resistance to shocks	250 g, 3 ms (EN 60068-2-27)
Resistance to vibration	30 g, 10 Hz 2,000 Hz (EN 60068-2-6)

¹⁾ With mating connector fitted.

²⁾ These values relate to all mechanical versions including recommended accessories unless otherwise noted.

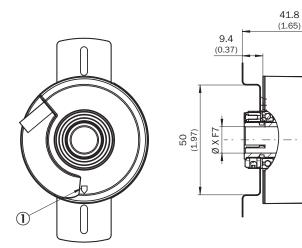
Classifications

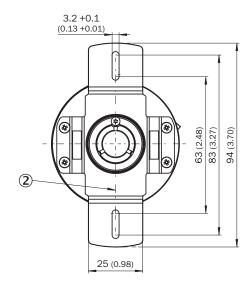
eCl@ss 5.0	27270501
eCl@ss 5.1.4	27270501
eCl@ss 6.0	27270590
eCl@ss 6.2	27270590
eCl@ss 7.0	27270501

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eCl@ss 8.0	27270501
eCl@ss 8.1	27270501
eCl@ss 9.0	27270501
eCl@ss 10.0	27270501
eCl@ss 11.0	27270501
eCl@ss 12.0	27270501
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

Dimensional drawing (Dimensions in mm (inch))





XF7 values see shaft diameter table for through hollow shaft, clamping at the front ① Zero pulse mark on housing

② Zero pulse mark on flange under stator coupling

Type Through hollow shaft with front clamping	Shaft diameter XF7
DBS60x-TAxxxxxxxx DBS60x-T1xxxxxxxx	6 mm
DBS60x-TBxxxxxxxx DBS60x-T2xxxxxxxxx	8 mm
DBS60x-TCxxxxxxxx DBS60x-T3xxxxxxxx	3/8″
DBS60x-TDxxxxxxxx DBS60x-T4xxxxxxxx	10 mm
DBS60x-TExxxxxxxx DBS60x-T5xxxxxxxx	12 mm
DBS60x-TFxxxxxxx DBS60x-T6xxxxxxxx	1/2"
DBS60x-TGxxxxxxxx	14 mm

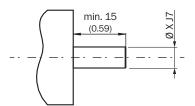
Ø 58 (2.28)

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Type Through hollow shaft with front clamping	Shaft diameter XF7
DBS60x-T7xxxxxxx	
DBS60x-THxxxxxxxx DBS60x-T8xxxxxxxx	15 mm
DBS60x-TJxxxxxxxx	5/8″

Attachment specifications

Through hollow shaft with front clamping

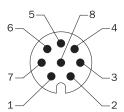


Customer side

Type Through hollow shaft with front clamping	Shaft diameter xj7
DBS60x-TAxxxxxxxx DBS60x-T1xxxxxxxx	6 mm
DBS60x-TBxxxxxxx DBS60x-T2xxxxxxxx	8 mm
DBS60x-TCxxxxxxx DBS60x-T3xxxxxxxx	3/8″
DBS60x-TDxxxxxxx DBS60x-T4xxxxxxxx	10 mm
DBS60x-TExxxxxxx DBS60x-T5xxxxxxxx	12 mm
DBS60x-TFxxxxxxx DBS60x-T6xxxxxxxx	1/2"
DBS60x-TGxxxxxxx DBS60x-T7xxxxxxxx	14 mm
DBS60x-THxxxxxxx DBS60x-T8xxxxxxxx	15 mm
DBS60x-TJxxxxxxxx	5/8″

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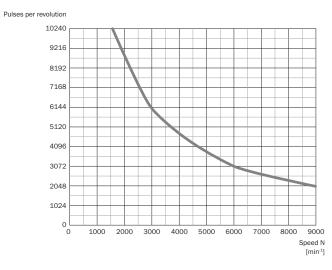
PIN assignment



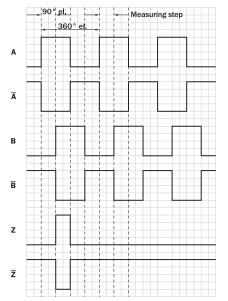
View of M12 male device connector on cable / housing

Wire colors (ca- ble connection)	Male connec- tor M12, 8-pin	Male connec- tor M23, 12-pin	TTL/HTL 6- channel signal	Explanation
Brown	1	6	A-	Signal wire
White	2	5	A	Signal wire
Black	3	1	В-	Signal wire
Pink	4	8	В	Signal wire
Yellow	5	4	Z-	Signal wire
Purple	6	3	Z	Signal wire
Blue	7	10	GND	Ground connection
Red	8	12	+U _s	Supply voltage
-	-	9	Not assigned	Not assigned
-	-	2	Not assigned	Not assigned
-	-	11	Not assigned	Not assigned
-	-	7	Not assigned	Not assigned
Screen	Screen	Screen	Screen	Screen connected to en- coder housing

Diagrams



Signal outputs for electrical interfaces TTL and HTL

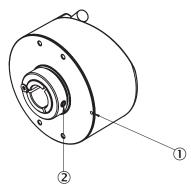


Cw with view on the encoder shaft in direction "A", compare dimensional drawing.

Supply voltage	Output
4,5 V 5,5 V	ΠL
10 V 30 V	ΠL
10 V 27 V	HTL
4,5 V 30 V	TTL/HTL universal
4,5 V 30 V	TTL

Operation note

Hollow shaft



Attention! If stator coupling is mounted, the zero pulse mark can be hidden by the stator coupling

① Zero pulse mark on flange

② Zero pulse is active when screw of clamping is inline with zero pulse mark on flange or housing mark

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Recommended accessories

Other models and accessories -> www.sick.com/DBS60

Other mounting accessories Series process that for holiow shaft encoders, fastening screws included the Beirang Block for holiow shaft waits shaft laads, Particularly for application on: Belt pulleys, Chain prinors, Friction whoels, It is designed this way to enable fitting of encoder with bild holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holiow shaft with a 12 mm, fastening screw holid and holid screw holid holid screw holid screw holid holi		Brief description	Туре	Part no.			
Sinterfaced for very large radial and axid shaft loads. Particularly for application on Bett pulses, Chain pulses, Chain pulses, Tukin application of this way to enable fitting of encoder with blind hollow shaft with a 12 mm. fastening screws included UIG 2308-MWENC 6027529 Head A: cable Head A: Cable Head A: Cable Description of the same to enable screws included UIG 2308-MWENC 6027530 Head A: Cable Head A: Cable Head A: Cable Better Shielded UIG 2308-MWENC 6027530 Head A: Cable Head A: Cable Head A: Cable Cable: SSI, Incremental, PUR, halogen-free, shielded UIG 22012-MW 6027531 Head A: Cable Head B: Flying leads UIG 2612-MW 6027531 Head A: Cable Head B: Flying leads UIG 2612-MW 6027531 Head A: Cable Head B: Flying leads UIG 2612-MW 6028516 Head A: Cable Head B: Flying leads UIG 2612-MW 6028561 Cable: SSI, ITL, HLI, Incremental, PUR, halogen-free, shielded UIG 2612-MW 6028661 Head A: female connector, M12, 8-pin, straight Head B: Flying leads DOL1208-605MAC1 6032867 Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m 6032867 Head A: female connector, M12, 8-pin, straight Head B: Flying	Other mounting accessories						
Head A: cable LTG-2308-MWENC 6027529 Head B: Eying leads LTG-2411-MW 6027530 Cable: SSI, Incremental, HPERFACE*, PUR, halogen-free, shielded LTG-2411-MW 6027530 Head A: cable Head A: cable LTG-2512-MW 6027531 Head B: Eying leads LTG-2612-MW 6027531 Cable: SSI, Incremental, PUR, halogen-free, shielded LTG-2612-MW 6028516 Head A: cable Head A: cable LTG-2612-MW 602866 Head A: cable Head A: cable LTG-2612-MW 602866 Head A: female connector, M12, 8-pin, straight DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-605MAC1 6032867 Head A: female connector, M12, 8-pin, straight DOL-1208-605MAC1 6032868 Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m DOL-1208-605MAC1 6032868 Head A: female connector, M12, 8-pin, straight DOL-1208-625MAC1 6032869 Head A: female connector, M12, 8-pin, straight DOL-1208-625MAC1 6032869 Head A: female connector, M12, 8-pin, straight, Acoded VE2A48 2099207 Head A: female connector, M12, 8-pin, straight, Acoded VE2A48 <td>-91</td> <td>is intended for very large radial and axial shaft loads. Particularly for application on: Belt pulleys, Chain pinions, Friction wheels. It is designed this way to enable fitting of en-</td> <td>BEF-FA-B12-010</td> <td>2042728</td>	-91	is intended for very large radial and axial shaft loads. Particularly for application on: Belt pulleys, Chain pinions, Friction wheels. It is designed this way to enable fitting of en-	BEF-FA-B12-010	2042728			
Head E: Pying leads Cabic: SSI, Incremental, HPERFACE [®] , PUR, halogen-free, shielded LTG-2411.MW 6027530 Head A: cable Head A: cable LTG-2512.MW 6027531 Head A: cable Head A: cable LTG-2512.MW 6027531 Head A: cable Head A: cable LTG-2512.MW 6027531 Head A: cable Head A: cable LTG-2612.MW 6028516 Head A: cable Head A: cable LTG-2612.MW 6028516 Head A: female connector, M12, 8-pin, straight DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-605MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-605MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-605MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-pin, straight DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-pin, straight Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-602MAC1 6032866 Head A: female connector, M12, 8-	Plug connecto	Plug connectors and cables					
Head 1: Flying leads Cable: SSI, Incremental, PUR, shielded LTG-2512.MW 6027531 Head A: cable Head A: cable Cable: SSI, Incremental, PUR, halogen-free, shielded LTG-2612.MW 6028516 Head A: cable Cable: SSI, TL, HTL, Hnchemental, PUR, halogen-free, shielded LTG-2612.MW 6028516 Head A: cable Cable: SSI, TL, HTL, Incremental, PUR, halogen-free, shielded, 2 m DOL-1208-602MAC1 6032867 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m DOL-1208-605MAC1 6032867 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m DOL-1208-602MAC1 6032868 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-620MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-620MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m DOL-1208-625MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m DOS01IMKA18 2099207 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 1 m DOS01MKA18 2099209 <td></td> <td>Head B: Flying leads</td> <td>LTG-2308-MWENC</td> <td>6027529</td>		Head B: Flying leads	LTG-2308-MWENC	6027529			
Head B: Flying leads Cable: SSI, Incremental, PUR, halogen-free, shielded LTG-2612-MW 6028516 Head A: cable Head B: Flying leads Cable: SSI, TL, HTL, Incremental, PUR, halogen-free, shielded Cable: SSI, TL, HTL, Incremental, PUR, halogen-free, shielded, 2 m DOL-1208-G02MAC1 6032866 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 2 m DOL-1208-G05MAC1 6032867 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m DOL-1208-G10MAC1 6032868 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m DOL-1208-G10MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-G20MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 m DOL-1208-G25MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m VYE2A48- 020501MKA18 2099207 Vergaphian use Prag chain use VYE2A48- 0050S01MKA18 2099209 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 1 m 100501MKA18 2099209 Drag chain use <td></td> <td>Head B: Flying leads</td> <td>LTG-2411-MW</td> <td>6027530</td>		Head B: Flying leads	LTG-2411-MW	6027530			
Head B: Flying leads Cable: SSI, TL, HL, Incremental, PUR, halogen-free, shielded DOL-1208-G02MAC1 6032866 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 2 m DOL-1208-G05MAC1 6032867 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m DOL-1208-G10MAC1 6032868 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m DOL-1208-G10MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-G20MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL-1208-G20MAC1 6032869 Head A: female connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded YF2AA8- 020S01MKA18 2099207 Head A: female connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded YF2AA8- 00S0S01MKA18 2099209 Head A: female connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m Drag chain use YF2AA8- 200S01MKA18 2099208		Head B: Flying leads	LTG-2512-MW	6027531			
Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 2 mDOL-1208-G05MAC16032867Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 mDOL-1208-G10MAC16032868Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 mDOL-1208-G10MAC16032869Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 mDOL-1208-G20MAC16032869Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mDOL-1208-G20MAC16067859Head A: female connector, M12, 8-pin, straight, A-coded Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mDOL-1208-G25MAC16007859Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 mYF2AA82099207Wead A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 mYF2AA82099209Drag chain useYF2AA82099209050501MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 1 mYF2AA82099210Drag chain useYF2AA82099210100501MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m Drag chain useYF2AA82099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m D		Head B: Flying leads	LTG-2612-MW	6028516			
Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 5 m DOL:1208-G10MAC1 6032868 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 m DOL:1208-G20MAC1 6032869 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 m DOL:1208-G20MAC1 6067859 Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 m DOL:1208-G25MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 m DOL:1208-G25MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 m DOL:1208-G25MAC1 6067859 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m DOS:01WKA18 2099207 Drag chain use VF2AA8- 020S01WKA18 2099209 DOS:01WKA18 2099209 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m VF2AA8- 100S01MKA18 2099210 Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m VF2AA8- 200S01MKA18 2099208 Head A: female c		Head B: Flying leads	DOL-1208-G02MAC1	6032866			
Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 10 mDOL 1208-G20MAC16032869Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 mDOL 1208-G25MAC16032869Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mDOL 1208-G25MAC16067859Head A: female connector, M12, 8-pin, straight, A-coded Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mYF2AA82099207Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 mYF2AA82099209Drag chain useHead A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 mYF2AA82099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 mYF2AA82099209Drag chain useHead A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 mYF2AA8- 100S01MKA182099210Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 mYF2AA8- 100S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 mYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 mYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 mYF2AA8- 200S01MKA182099208Head A: female		Head B: Flying leads	DOL-1208-G05MAC1	6032867			
Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 20 mDOL-1208-G25MAC16067859Head A: female connector, M12, 8-pin, straight Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mDOL-1208-G25MAC16067859Head A: female connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 mYF2AA8 020S01MKA182099207Prag chain useHead A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 mYF2AA8- 050S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 mYF2AA8- 		Head B: Flying leads	DOL-1208-G10MAC1	6032868			
Head B: Flying leads Cable: Incremental, SSI, PUR, halogen-free, shielded, 25 mYF2AA8- 020S01MKA182099207Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m Drag chain useYF2AA8- 020S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m Drag chain useYF2AA8- 050S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 m Drag chain useYF2AA8- 050S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 m Drag chain useYF2AA8- 100S01MKA182099210Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m Drag chain useYF2AA8- 100S01MKA182099210Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useDOS-1208-GA016045001		Head B: Flying leads	DOL-1208-G20MAC1	6032869			
Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m Drag chain use020S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 m Drag chain useYF2AA8- 050S01MKA182099209Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 m Drag chain useYF2AA8- 100S01MKA182099210Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m Drag chain useYF2AA8- 100S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m Drag chain useYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useYF2AA8- 200S01MKA182099208Head A: female connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m Drag chain useDOS-1208-GA016045001		Head B: Flying leads	DOL-1208-G25MAC1	6067859			
Head B: male connector, M12, 8-pin, straight, A-coded 050S01MKA18 Cable: PUR, halogen-free, shielded, 5 m 0700000000000000000000000000000000000		Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 2 m		2099207			
Head B: male connector, M12, 8-pin, straight, A-coded 100S01MKA18 Cable: PUR, halogen-free, shielded, 10 m 100S01MKA18 Drag chain use YF2AA8- Head A: female connector, M12, 8-pin, straight, A-coded YF2AA8- Lead B: male connector, M12, 8-pin, straight, A-coded 200S01MKA18 WF2AA8- 200S01MKA18 Drag chain use YF2AA8- Head A: female connector, M12, 8-pin, straight, A-coded 200S01MKA18 Head A: female connector, M12, 8-pin, straight, A-coded 200S01MKA18 Head A: female connector, M12, 8-pin, straight, A-coded 6045001		Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 5 m		2099209			
Head B: male connector, M12, 8-pin, straight, A-coded 200S01MKA18 Cable: PUR, halogen-free, shielded, 20 m Drag chain use Head A: female connector, M12, 8-pin, straight, A-coded D0S-1208-GA01 6045001 6045001		Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 10 m		2099210			
		Head B: male connector, M12, 8-pin, straight, A-coded Cable: PUR, halogen-free, shielded, 20 m		2099208			
			DOS-1208-GA01	6045001			

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