

AHM36B-S1QK012x12

AHS/AHM36

ABSOLUTE ENCODERS





Ordering information

Туре	Part no.
AHM36B-S1QK012x12	1092061

Other models and accessories → www.sick.com/AHS_AHM36

Illustration may differ



Detailed technical data

Performance

$\label{eq:max_max} \textbf{Max. resolution (number of steps per revolution x number of revolutions)}$	12 bit x 12 bit (4,096 x 4,096)
Error limits G	0.35° (at 20 °C) ¹⁾
Repeatability standard deviation $\boldsymbol{\sigma}_{r}$	0.25° (at 20 °C) ²⁾

¹⁾ In accordance with DIN ISO 1319-1, position of the upper and lower error limit depends on the installation situation, specified value refers to a symmetrical position, i.e. deviation in upper and lower direction is the same.

Interfaces

Communication interface Communication Interface detail Smart Sensor	IO-Link IO-Link V1.1 / COM3 (230,4 kBaud) Efficient communication, Enhanced Sensing
Process data	Position, speed
Parameterising data	Number of steps per revolution Number of revolutions PRESET Counting direction Sampling rate for speed calculation Unit for output of the speed value
Status information	Via status LED
Initialization time	2 s ¹⁾
Cycle time	≤ 3.2 ms

 $^{^{1)}}$ Valid positional data can be read once this time has elapsed.

Electrical data

Connection type	Cable, 4-wire, universal, 1.5 m
Supply voltage	18 30 V

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.

 $^{^{2)}}$ In accordance with DIN ISO 55350-13; 68.3% of the measured values are inside the specified area.

Power consumption	≤ 1.5 W
Reverse polarity protection	✓
MTTFd: mean time to dangerous failure	240 years (EN ISO 13849-1) ¹⁾

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Mechanical data

Mechanical design	Solid shaft, Servo flange
Shaft diameter	6 mm
Shaft length	12 mm
Weight	$0.12 \mathrm{kg}^{ 1)}$
Shaft material	Stainless steel
Flange material	Aluminum
Housing material	Zinc
Start up torque	< 0.5 Ncm
Operating torque	< 0.5 Ncm
Permissible Load capacity of shaft	40 N / radial 20 N / axial
Moment of inertia of the rotor	2.5 gcm ²
Bearing lifetime	3.6 x 10^8 revolutions
Angular acceleration	≤ 500,000 rad/s²
Operating speed	≤ 6,000 min ⁻¹

¹⁾ Based on devices with male connector.

Ambient data

EMC	According to EN 61000-6-2, EN 61000-6-3 and EN 61131-9
Enclosure rating	IP65 (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	-20 °C +70 °C
Storage temperature range	-40 °C +100 °C, without package
Resistance to shocks	100 g, 6 ms (according to EN 60068-2-27)
Resistance to vibration	20 g, 10 Hz 2,000 Hz (according to EN 60068-2-6)

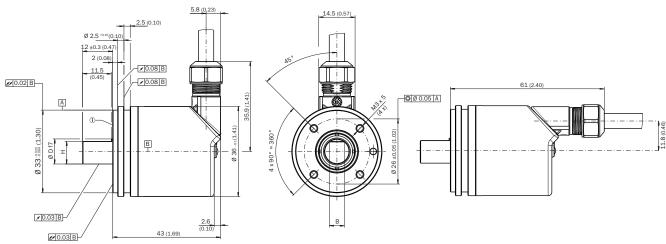
Classifications

ECI@ss 5.0	27270502
ECI@ss 5.1.4	27270502
ECI@ss 6.0	27270590
ECI@ss 6.2	27270590
ECI@ss 7.0	27270502
ECI@ss 8.0	27270502
ECI@ss 8.1	27270502
ECI@ss 9.0	27270502
ECI@ss 10.0	27270502

ECI@ss 11.0	27270502
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
UNSPSC 16.0901	41112113

Dimensional drawing (Dimensions in mm (inch))

Solid shaft, servo flange, cable



① Measuring point for operating temperature

PIN assignment



PIN	Wire color	Signal	Function		
			Basic	Advanced	Advanced Smart Task
1	Brown	L+	Encoder supply voltage 18-30 V (+Us)		
2	White	I/Q	Not connect- Multifunctional pin (configurable as ed - no function switching input or switching output)		, •
3	Blue	L-	Encoder supply voltage 0 V (GND)		
4	Black	C/Q			
					Switching output (SIO mode)

Recommended accessories

Other models and accessories → www.sick.com/AHS_AHM36

Other mounting accessories Measuring wheel with Oring (NBR70) for 6 mm solid shaft, circumference 300 mm BEF-MR006030R 205634 Oring for measuring wheels (circumference 200 mm) Oring for measuring wheels (circumference 300 mm) BEF-OR-053-040 2064061 Oring for measuring wheels (circumference 300 mm) BEF-OR-063-050 2064076 Shaft adaptation Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10,000 rpm, -30 **C to +120 **C, max. torque 80 Ncm; material stainless steel bellows, aluminum hub Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10,000 rpm, -30 **C to +120 **C, max. torque 80 Ncm; material stainless steel bellows, aluminum hub 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 **C to +120 **C, max. torque 80 Ncm; materials stainless steel bellows, aluminum hub Spring washer coupling, shaft diameter 6 mm / 10 mm, max. shaft offset: radially +/- 2,5 mm, axially +/-3 mm, angle +/-2 10 degrees; max. speed 12,000 rpm, -30 **to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, max shaft offset: radially +/- 2,5 mm, axially +/-3 mm, angle +/-2 10 degrees; max. speed 12,000 rpm, -30 **to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, max shaft offset: radially +/- 2,0 mm, axially +/- 3 mm, angle +/-2 10 degrees; max. speed 12,000 rpm, -30 **to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, max shaft offset: radially +/- 2,0 mm, axially +/- 4 mm, angle +/-2 10 degrees; max. speed 12,000 rpm, -30 **to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, max shaft offset: radially +/- 20		Brief description	Туре	Part no.			
O-ring for measuring wheels (circumference 200 mm) D-ring for measuring wheels (circumference 300 mm) BEF-OR-053-040 D-ring for measuring wheels (circumference 300 mm) Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset; radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4°; max. speed 10,000 rpm, -30 °C to +120 °C, max. torque 80 Ncm; material; stainless steel bellows, aluminum hub Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset; radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4°; max. speed 10,000 rpm, -30 °C to +120 °C, max. torque 80 Ncm; material; stainless steel bellows, aluminum hub Double loop coupling, shaft diameter 6 mm / 10 mm, max. shaft offset; radial ±/- 25 mm, axial ±/- 0.3 mm, axial ±/- 0.4 mm, angular +/- 25 mm, axial ±/- 0.3 mm,	Other mounti	Other mounting accessories					
O-ring for measuring wheels (circumference 300 mm) BEF-OR-083-050 2064076 Shaft adaptation Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10,000 pm, -30 *C to +120 *C, max. torque 80 Norm; material: stainless steel bellows, aluminum hub Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10,000 pm, -30 *C to +120 *C, max. torque 80 Norm; material: stainless steel bellows, aluminum hub Double loop coupling, shaft diameter 6 mm / 10 mm, max. shaft offset: radiall y +/- 2,5 mm, axially +/-3 mm, angle +/- 10 degrees:max. speed 3.000 pm, -30 to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radiall y-/-0.3 mm, axial +/-0.4 mm, angular +/-2.5*; max. speed 12,000 pm, -30 to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radiall y-/-0.3 mm, axial +/-0.4 mm, angular +/-2.5*; max. speed 12,000 pm, -30 to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Plug connectors and cables Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Head B: male connector, M12		Measuring wheel with 0-ring (NBR70) for 6 mm solid shaft, circumference 300 mm	BEF-MR006030R	2055634			
Shaft adaptation Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10.000 rpm, -30 *C to +120 *C, max. torque 80 Nem; material: stainless steel bellows, aluminum hub Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4*; max. speed 10.000 rpm, -30 *C to +120 *C, max. torque 80 Nem; material: stainless steel bellows, aluminum hub Double loop coupling, shaft diameter 6 mm / 10 mm, max. shaft offset: radiall +/- 2,5 mm, axially +/- 3 mm, angle +/- 10 degrees;max. speed 3.000 rpm, -30 to +80 degrees Celsius, torsional spring stiffress of 25 hm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radiall +/- 0.3 mm, axial +/- 0.4 mm, angular +/- 2.5*; max. speed 12.000 rpm, -30 to +80 degrees Celsius, torsional spring stiffress of 25 hm/rad Plug connectors and cables Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: might connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: might connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connec		O-ring for measuring wheels (circumference 200 mm)	BEF-0R-053-040	2064061			
Bellows coupling, shaft diameter 6 mm / 6 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4"; max. speed 10,000 rpm, -30 "C to +120 "C, max torque 80 Ncm; material: stainiess steel bellows, aluminum hub Bellows coupling, shaft diameter 6 mm / 10 mm, maximum shaft offset: radial ± 0.25 mm, axial ± 0.4 mm, angular +/- 4"; max. speed 10,000 rpm, -30 "C to +120 "C, max. torque 80 Ncm; material: stainiess steel bellows, aluminum hub 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 Nn/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radial +/- 0.3 mm, axial +/- 0.4 mm, angular +/- 2.5"; max. speed 12,000 rpm, -10" to +80 "C, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuat		O-ring for measuring wheels (circumference 300 mm)	BEF-0R-083-050	2064076			
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0.25 mm, axial ± 0.4 mm, angular +/- 4°; max. speed 10,000 rpm, -30 °C to +120 °C, max. torque 80 Ncm; material: stainless steel bellows, aluminum hub 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 Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radial +/-0.3 mm, axial +/-0.4 mm, angular +/-2.5°; max. speed 12,000 rpm, -10° to +80 °C, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor		0.25 mm, axial \pm 0.4 mm, angular +/- 4°; max. speed 10,000 rpm, -30 °C to +120 °C,	KUP-0606-B	5312981			
2,5 mm, axially 4/-3 mm, angle +/- 10 degrees;max. speed 3.000 rpm, -30 to +80 degrees Celsius, torsional spring stiffness of 25 Nm/rad Spring washer coupling, shaft diameter 6 mm / 10 mm, Maximum shaft offset: radial +/- 0.3 mm, axial +/- 0.4 mm, angular +/- 2.5°; max. speed 12,000 rpm, -10° to +80° C, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded 100UB3XLEAX Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded 100UB3XLEAX Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded 100UB3XLEAX Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded 100UB3M2A14 100UB		0.25 mm, axial \pm 0.4 mm, angular +/- 4°; max. speed 10,000 rpm, -30 °C to +120 °C,	KUP-0610-B	5312982			
+/- 0.3 mm, axial +/- 0.4 mm, angular +/- 2.5°; max. speed 12,000 rpm, -10° to +80 °C, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide membrane and hardened steel coupling pin Plug connectors and cables Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m		$2,\!5$ mm, axially +/-3 mm, angle +/- 10 degrees;max. speed 3.000 rpm, -30 to +80 de-	KUP-0610-D	5326697			
Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m		+/- 0.3 mm, axial +/- 0.4 mm, angular +/- 2.5 $^{\circ}$; max. speed 12,000 rpm, -10 $^{\circ}$ to +80 $^{\circ}$ C, max. torque 60 Ncm; material: aluminum flange, glass fiber-reinforced polyamide	KUP-0610-F	5312985			
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m DOS-1204-G DOS-1204-G EXPENDIANA DOS-1204-G DOS-1204-G DOS-1204-G	Plug connecte	ors and cables					
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight Head B: -	No.	Head B: Flying leads		2095607			
Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight Head B: - DOS-1204-G 6007302		Head B: Flying leads		2095608			
Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight Head B: - DOS-1204-G 6007302		Head B: Flying leads		2095609			
Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight Head B: - DOS-1204-G 6007302	No No	Head B: male connector, M12, 4-pin, straight, A-coded		2096000			
Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m Head A: female connector, M12, 4-pin, straight Head B: -		Head B: male connector, M12, 4-pin, straight, A-coded		2096001			
Head B: -		Head B: male connector, M12, 4-pin, straight, A-coded		2096002			
		Head B: -	DOS-1204-G	6007302			

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