



**ANM58B-FENNB0000301000XX018X16**

ANS/ANM58

**ABSOLUTE ENCODERS**

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
ANM58B-FENNB0000301000XX018X16	1146129

Other models and accessories → [www.sick.com/ANS\\_ANM58](http://www.sick.com/ANS_ANM58)

Illustration may differ



## Detailed technical data

### Safety-related parameters

<b>MTTF<sub>D</sub> (mean time to dangerous failure)</b>	165 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>Number of steps per revolution (max. resolution)</b>	262,144 (18 bit)
<b>Number of revolutions</b>	65,536 (16 bit)
<b>Max. resolution (number of steps per revolution x number of revolutions)</b>	18 bit x 16 bit (262,144 x 65,536)
<b>Error limits G</b>	0.03°
<b>Repeatability standard deviation σ<sub>r</sub></b>	0.002°

### Interfaces

<b>Communication interface</b>	PROFINET
<b>PROFINET version</b>	PROFINET Version 2.3
<b>Encoder profile</b>	V4.2
<b>Transmission medium</b>	CAT-5e cable
<b>Initialization time</b>	5 s
<b>Cycle time</b>	≥ 1 ms
<b>Process data</b>	Position, speed, Encoder status (errors, warnings)
<b>Parameterising data</b>	Number of steps per revolution Total measuring range PRESET Direction of rotation Filter for speed calculation Unit for output of the speed value Round axis functionality

<b>Available diagnostics data</b>	Minimum and maximum temperature Maximum speed Power-on counter Operating hours counter power-on/motion Counter of direction changes/number of movements cw/number of movements ccw Configurable limit values with limit value monitoring
<b>Status information</b>	Via status LED

## Electronics

<b>Connection type</b>	Male connector, 1x, M12, 4-pin, axial <sup>1)</sup> Female connector, 2x, M12, 4-pin, axial <sup>2)</sup>
<b>Supply voltage</b>	10 ... 32 V
<b>Power consumption</b>	≤ 3 W
<b>Reverse polarity protection</b>	✓
<b>Short-circuit protection</b>	✓

<sup>1)</sup> A-coded.<sup>2)</sup> D-coded.

## Mechanics

<b>Mechanical design</b>	Solid shaft, face mount flange
<b>Shaft diameter</b>	10 mm
<b>Shaft length</b>	19 mm
<b>Characteristics of the shaft</b>	With flat
<b>Weight</b>	Approx. 0.5 kg
<b>Shaft material</b>	Stainless steel
<b>Flange material</b>	Aluminum
<b>Housing material</b>	Zinc die-cast with copper-nickel coating
<b>Start up torque</b>	1.1 Ncm (+20 °C)
<b>Operating torque</b>	0.5 Ncm (+20 °C)
<b>Permissible shaft loading</b>	100 N (radial) 50 N (axial)
<b>Operating speed</b>	≤ 9,000 min <sup>-1</sup>
<b>Moment of inertia of the rotor</b>	45 gcm <sup>2</sup>
<b>Bearing lifetime</b>	L <sub>mnr</sub> 30 x 10 <sup>9</sup> revolutions <sup>1)</sup>
<b>Angular acceleration</b>	≤ 300,000 rad/s <sup>2</sup>

<sup>1)</sup> The value corresponds to L 10mr (ISO/TS 16281) at 60 °C operating temperature, rotational speed: 3,000 rpm, with shaft load/shaft movement of max. 50% of the specified maximum value.

## Ambient data

<b>EMC</b>	According to EN 61000-6-2 and EN 61000-6-3
<b>Enclosure rating</b>	IP65 (IEC 60529)
<b>Permissible relative humidity</b>	90 % (Condensation not permitted)
<b>Operating temperature range</b>	-40 °C ... +85 °C <sup>1)</sup>
<b>Storage temperature range</b>	-40 °C ... +100 °C, without package

<sup>1)</sup> Relative to the measuring point on the plug connection side, see dimensional drawing.<sup>2)</sup> Operation of the mounted encoder in resonance ranges should be avoided to prevent possible damage or malfunctions.

<b>Resistance to shocks</b>	200 g, 6 ms (EN 60068-2-27)
<b>Resistance to vibration</b>	30 g, 10 Hz ... 2,000 Hz (EN 60068-2-6) <sup>2)</sup>
<b>Operating height (above sea level)</b>	≤ 3,000 m (70 kPa)

<sup>1)</sup> Relative to the measuring point on the plug connection side, see dimensional drawing.

<sup>2)</sup> Operation of the mounted encoder in resonance ranges should be avoided to prevent possible damage or malfunctions.

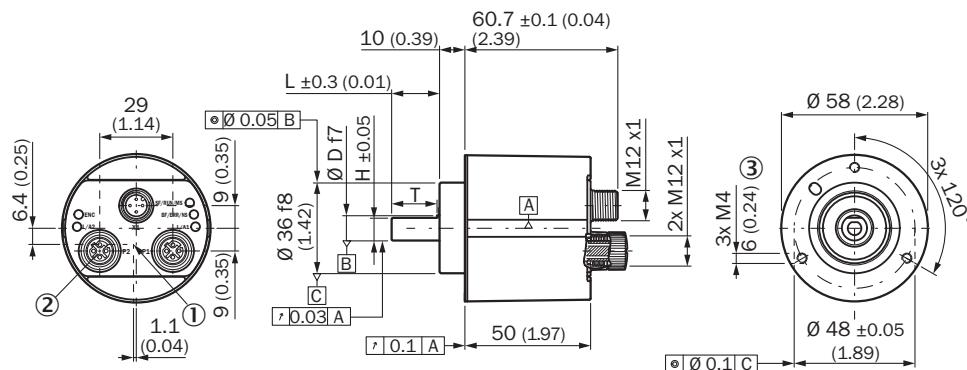
## Certificates

<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>Profinet certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27270502
<b>ECLASS 5.1.4</b>	27270502
<b>ECLASS 6.0</b>	27270590
<b>ECLASS 6.2</b>	27270590
<b>ECLASS 7.0</b>	27270502
<b>ECLASS 8.0</b>	27270502
<b>ECLASS 8.1</b>	27270502
<b>ECLASS 9.0</b>	27270502
<b>ECLASS 10.0</b>	27270502
<b>ECLASS 11.0</b>	27270502
<b>ECLASS 12.0</b>	27270502
<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

## Dimensional drawing



Dimensions in mm (inch)

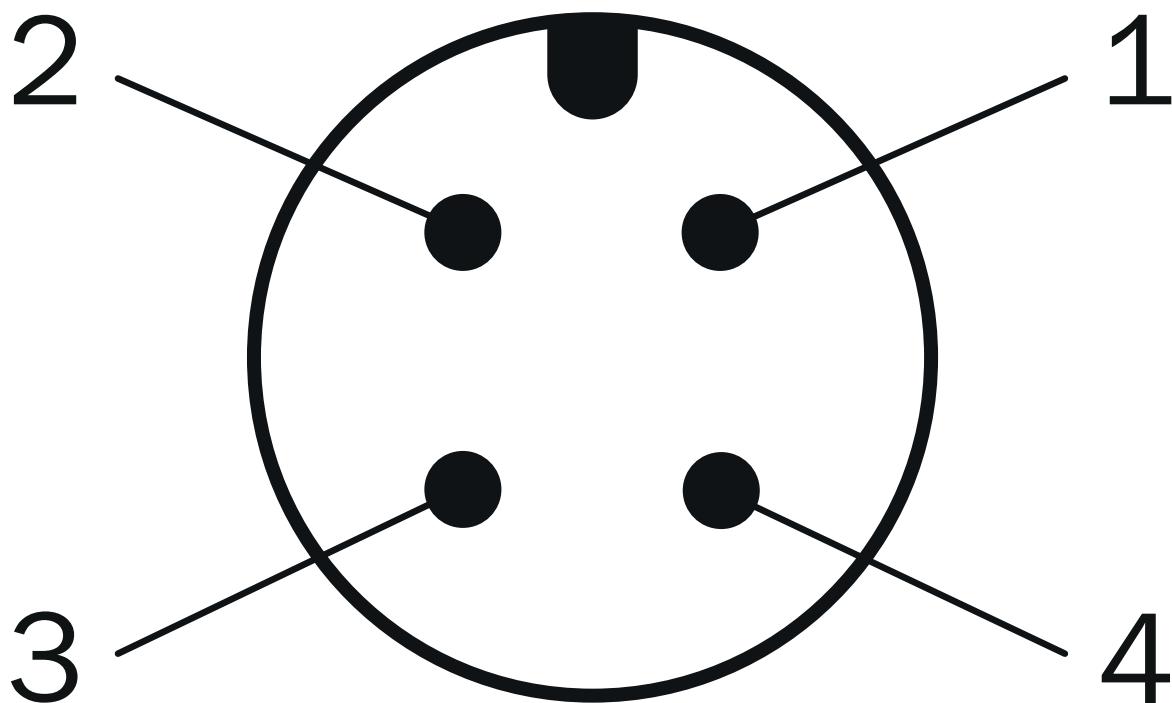
Dimensions in mm (inch)  
diameter x f7 corresponds to the shaft diameter

① Operating temperature measuring point: On the plug connection side, see drawing

- ① Operating temperature
- ② Protective cap removed

③ depth

## PIN assignment Male connector

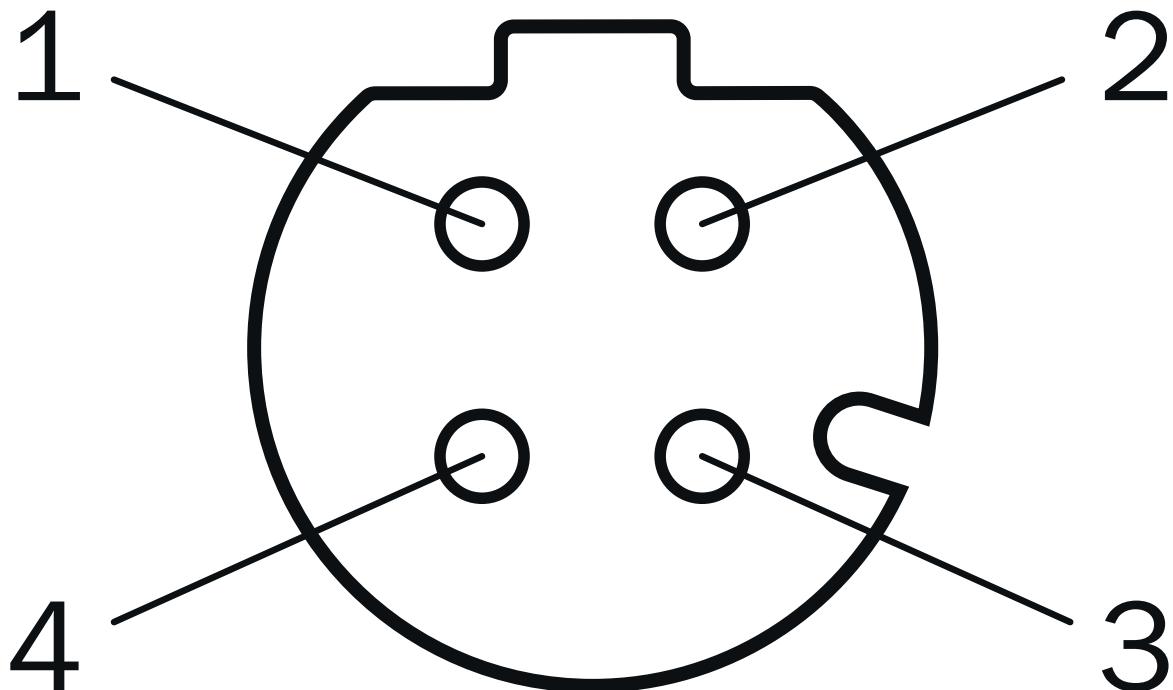


## Supply voltage

PIN	Wire color	Signal
1	Brown	U <sub>S</sub> 10 V ... 30 V
2	White	Not assigned

PIN	Wire color	Signal
3	Blue	GND
4	Black	Not assigned

PIN assignment Female connector



Port 1, Port 2

PIN	Wire color	Signal
1	Yellow	T x D+
2	White	R x D+
3	Orange	T x D-
4	Blue	R x D-

## Recommended accessories

Other models and accessories → [www.sick.com/ANS\\_ANM58](http://www.sick.com/ANS_ANM58)

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 1 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-010UB3XLEAX	2145655
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-020UB3XLEAX	2095607
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 3 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-030UB3XLEAX	2145656
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-050UB3XLEAX	2095608
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-100UB3XLEAX	2095609
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 20 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-200UB3XLEAX	2095611
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 25 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-250UB3XLEAX	2095615
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 0.6 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YF2A14-C60UB3XLEAX	2145654
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 1 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YG2A14-010UB3XLEAX	2145658
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li><li><b>Connection type head B:</b> Flying leads</li><li><b>Signal type:</b> Sensor/actuator cable</li><li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Sensor/actuator cable, unshielded</li><li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li></ul>	YG2A14-020UB3XLEAX	2095766

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
	<ul style="list-style-type: none"> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-050UB3XLEAX	2095767
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-100UB3XLEAX	2095768
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 20 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-200UB3XLEAX	2095770
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 25 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-250UB3XLEAX	2095771
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-020P-N1XLEAX	2106171
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P-N1XLEAX	2106172
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-100P-N1XLEAX	2106173
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P-N1XLEAX	2106175
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-100P-N1XLEAX	2106176
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 25 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-250P-N1XLEAX	2106180
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> </ul>	YM2D24-020P-N1N2D24	2106165

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
	<ul style="list-style-type: none"><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-050P-N1M2D24	2106160
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-050P-N1N2D24	2106166
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-100P-N1M2D24	2106161
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-100P-N1N2D24	2106167
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YN2D24-020P-N1N2D24	2106168
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YN2D24-100P-N1N2D24	2106170
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-020P-N1MRJA4	2106182
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled, A-coded</li><li><b>Description:</b> Unshielded</li><li><b>Connection systems:</b> Screw-type terminals</li><li><b>Permitted cross-section:</b> <math>\leq 0.75 \text{ mm}^2</math></li></ul>	DOS-1204-W	6007303
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Signal type:</b> PROFINET</li><li><b>Cable:</b> CAT5, CAT5e</li><li><b>Description:</b> PROFINET, shielded</li><li><b>Connection systems:</b> IDC quick connection</li><li><b>Permitted cross-section:</b> <math>0.14 \text{ mm}^2 \dots 0.34 \text{ mm}^2</math></li></ul>	STE-1204-WZ	6048262
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-050P-N1MRJA4	2106184
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li><li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YM2D24-100P-N1MRJA4	2106185
	<ul style="list-style-type: none"><li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li><li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li><li><b>Signal type:</b> Ethernet, PROFINET</li><li><b>Cable:</b> 2 m, 4-wire, PUR, halogen-free</li><li><b>Description:</b> Ethernet, shielded, PROFINET</li><li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li></ul>	YN2D24-020P-N1MRJA4	2106162

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
	<ul style="list-style-type: none"> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>		
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 3 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-030P-N1MRJA4	2144265
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P-N1MRJA4	2106163
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 10 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-100P-N1MRJA4	2106164
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 20 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-200P-N1MRJA4	2127664
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P-N1N2D24	2127662
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Connection type head B:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 30 m, 4-wire, CAT5, CAT5e, PVC</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> </ul>	SSL-2J04-F30MZ	6059450
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, D-coded</li> <li><b>Connection type head B:</b> Female connector, RJ45, 8-pin</li> <li><b>Signal type:</b> Ethernet</li> <li><b>Cable:</b> CAT5, CAT5e</li> <li><b>Description:</b> Ethernet, shielded</li> <li><b>Note:</b> Cabinet through</li> </ul>	Feedthrough female connector Ethernet RJ45	6048180

	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 family:</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
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</b> Measuring wheel mechanics</li><li><b>Description:</b> O-ring for measuring wheels (circumference 200 mm)</li></ul>	BEF-OR-053-040	2064061
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</b> Measuring wheels</li><li><b>Description:</b> Plastic measuring wheel with smooth plastic surface (Hytrex), for 10 mm solid shaft, circumference 200 mm</li></ul>	BEF-MR-010020	5312988
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</b> Measuring wheels</li><li><b>Description:</b> Measuring wheel with ridged plastic surface (Hytrex) for 10 mm solid shaft, circumference 200 mm</li></ul>	BEF-MR-010020G	5318678
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</b> Measuring wheels</li><li><b>Description:</b> Aluminium measuring wheel with O-ring (NBR70) for 10 mm solid shaft, circumference 200 mm</li></ul>	BEF-MR010020R	2055224
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</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 family:</b> Measuring wheels</li><li><b>Description:</b> Plastic measuring wheel with smooth plastic surface (Hytrex) for 10 mm solid shaft, circumference 500 mm</li></ul>	BEF-MR-010050	5312989
	<ul style="list-style-type: none"><li><b>Product segment:</b> Measuring wheels and measuring wheel mechanics</li><li><b>Product family:</b> Measuring wheels</li><li><b>Description:</b> Measuring wheel with O-ring (NBR70) for 10 mm solid shaft, circumference 500 mm</li></ul>	BEF-MR010050R	2055227

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> <li><b>Description:</b> Flange adapter, adaptation of face mount flange with 36 mm centering hub to 50 mm servo flange, aluminum, including 3 flat head screws M4 x 10</li> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum</li> <li><b>Items supplied:</b> Including 3 countersunk screws M3 x 10</li> </ul>	BEF-FA-036-050	2029160
	<ul style="list-style-type: none"> <li><b>Description:</b> Flange adapter, adaptation of face mount flange with 36 mm centering hub to 60 mm square mounting plate, aluminum, including 3 flat head screws M4 x 8</li> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum</li> <li><b>Items supplied:</b> Including 3 countersunk screws M4 x 8</li> </ul>	BEF-FA-036-060REC	2029162
	<ul style="list-style-type: none"> <li><b>Description:</b> Flange adapter, adaptation of face mount flange with 36 mm centering hub to 58 mm square mounting plate with shock absorbers, aluminum</li> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum</li> </ul>	BEF-FA-036-060RSA	2029163
	<ul style="list-style-type: none"> <li><b>Description:</b> Flange adapter, adaptation of face mount flange with 36 mm centering hub to 63 mm square mounting plate, aluminum, including 3 flat head screws M4 x 10</li> <li><b>Material:</b> Aluminum</li> <li><b>Details:</b> Aluminum</li> <li><b>Items supplied:</b> Including 3 countersunk screws M3 x 10</li> </ul>	BEF-FA-036-063REC	2034225

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