

# ANS58B-THNNA000000400AXX262144

ANS/ANM58

**ABSOLUTE ENCODERS** 





#### Ordering information

Туре	part no.
ANS58B-THNNA000000400AXX262144	1151030

Other models and accessories → www.sick.com/ANS\_ANM58

Illustration may differ



#### Detailed technical data

#### Safety-related parameters

MTTF <sub>D</sub> (mean time to dangerous failure)	165 years (EN ISO 13849-1) <sup>1)</sup>

<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

Number of steps per revolution (max. resolution)	262,144 (18 bit)
Error limits G	0.03°
Repeatability standard deviation $\boldsymbol{\sigma}_{r}$	0.002°

#### Interfaces

Communication interface	PROFINET
PROFINET version	PROFINET version 2.3
Encoder profile	V4.2
Transmission medium	CAT-5e cable
Initialization time	5 s
Cycle time	≥ 1 ms
Process data	Position, speed, Encoder status (errors, warnings)
Parameterising data	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
Available diagnostics data	Minimum and maximum temperature Maximumspeed Power-on counter

	Operatinghours counter power-on/motion  Counter of direction changes/number of movements cw/number of movements ccw  Configurable limit values with limit value monitoring
Status information	Via status LED

#### **Electronics**

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

<sup>&</sup>lt;sup>1)</sup> A-coded.

#### Mechanics

Mechanical design	Through hollow shaft
Shaft diameter	15 mm
Characteristics of the shaft	Front clamp
Weight	Approx. 0.5 kg
Shaft material	Stainless steel
Flange material	Aluminum
Material, stator coupling	Stainless steel
Housing material	Zinc die-cast with copper-nickel coating
Start up torque	4.6 Ncm (+20 °C)
Operating torque	1.5 Ncm (+20 °C)
Permissible movement static	± 0.3 mm (radial) ± 0.5 mm (axial)
Permissible movement dynamic	± 0.05 mm (radial) ± 0.1 mm (axial)
Operating speed	≤ 4,000 min <sup>-1</sup>
Moment of inertia of the rotor	125 gcm <sup>2</sup>
Bearing lifetime	L <sub>mnr</sub> 30 x 10^9 revolutions <sup>1)</sup>
Angular acceleration	≤ 300,000 rad/s²

<sup>1)</sup> The value corresponds to L 10 mr (ISO/TS 16281) at 60 °C operating temperature, speed: 3,000 rpm, with shaft load: 50 N radial; 25 N axial.

#### Ambient data

ЕМС	According to EN 61000-6-2 and EN 61000-6-3
Enclosure rating	IP65 (IEC 60529)
Permissible relative humidity	90 % (Condensation not permitted)
Operating temperature range	-40 °C +85 °C
Storage temperature range	-40 °C +100 °C, without package
Resistance to shocks	100 g, 6 ms (EN 60068-2-27)

 $<sup>^{1)}</sup>$  Operation of the mounted encoder in resonance ranges should be avoided to prevent possible damage or malfunctions.

<sup>&</sup>lt;sup>2)</sup> D-coded.

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**ABSOLUTE ENCODERS** 

Resistance to vibration	10 g, 10 Hz 2,000 Hz (EN 60068-2-6) <sup>1)</sup>
Operating height (above sea level)	≤ 3,000 m (70 kPa)

 $<sup>^{1)}</sup>$  Operation of the mounted encoder in resonance ranges should be avoided to prevent possible damage or malfunctions.

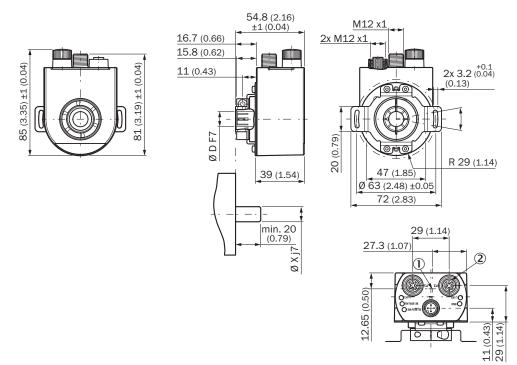
#### Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓
Profinet certificate	✓

#### Classifications

ECLASS 5.0	27270502
ECLASS 5.1.4	27270502
ECLASS 6.0	27270590
ECLASS 6.2	27270590
ECLASS 7.0	27270502
ECLASS 8.0	27270502
ECLASS 8.1	27270502
ECLASS 9.0	27270502
ECLASS 10.0	27270502
ECLASS 11.0	27270502
ECLASS 12.0	27270502
ETIM 5.0	EC001486
ETIM 6.0	EC001486
ETIM 7.0	EC001486
ETIM 8.0	EC001486
UNSPSC 16.0901	41112113

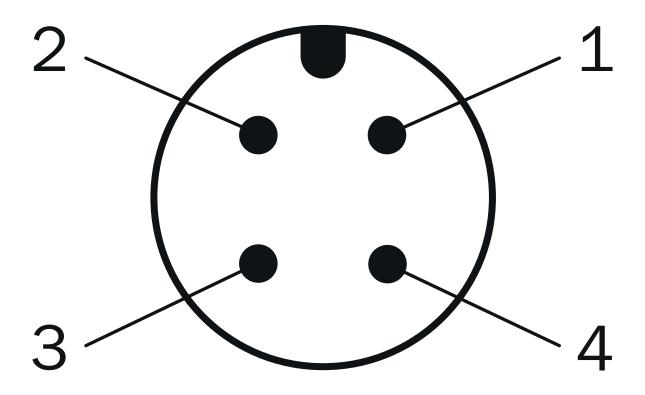
#### **Dimensional drawing**



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

- ① Operating temperature measuring point: On the plug connection side, see drawing
- 2 Protective cap removed

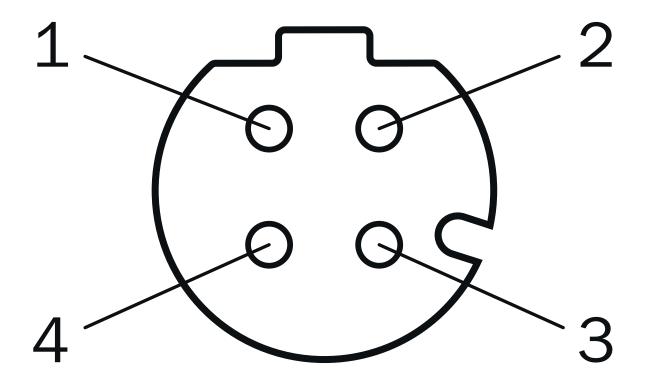
## PIN assignment Male connector



#### Supply voltage

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

	Brief description	Туре	part no.	
connectors ar	connectors and cables			
1	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A14-010UB3XLEAX	2145655	
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-020UB3XLEAX	2095607	
	<ul> <li>Connection type head A: Fernale connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 3 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-030UB3XLEAX	2145656	
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-050UB3XLEAX	2095608	
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-100UB3XLEAX	2095609	
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 20 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14-200UB3XLEAX	2095611	
	Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 25 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A14-250UB3XLEAX	2095615	
1	<ul> <li>Connection type head A: Female connector, M12, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 0.6 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A14- C60UB3XLEAX	2145654	
3	<ul> <li>Connection type head A: Female connector, M12, 4-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 1 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-010UB3XLEAX	2145658	
>	<ul> <li>Connection type head A: Fernale connector, M12, 4-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> </ul>	YG2A14-020UB3XLEAX	2095766	

	Brief description	Туре	part no.
	Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation		
	Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YG2A14-050UB3XLEAX	2095767
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-100UB3XLEAX	2095768
	<ul> <li>Connection type head A: Female connector, M12, 4-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 20 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-200UB3XLEAX	2095770
>	<ul> <li>Connection type head A: Female connector, M12, 4-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 25 m, 4-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YG2A14-250UB3XLEAX	2095771
100	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-020P- N1XLEAX	2106171
6	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P- N1XLEAX	2106172
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-100P- N1XLEAX	2106173
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P- N1XLEAX	2106175
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-100P- N1XLEAX	2106176
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 25 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-250P- N1XLEAX	2106180
6.0	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> </ul>	YM2D24-020P- N1N2D24	2106165

	Brief description	Туре	part no.
	Application: Drag chain operation, Zones with oils and lubricants		
8 8	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, straight, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P- N1M2D24	2106160
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P- N1N2D24	2106166
<b>b b</b>	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, straight, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-100P- N1M2D24	2106161
6.0	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-100P- N1N2D24	2106167
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-020P- N1N2D24	2106168
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-100P- N1N2D24	2106170
10	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 2 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-020P- N1MRJA4	2106182
	Connection type head A: Female connector, M12, 4-pin, angled, A-coded Description: Unshielded, Head A: female connector, M12, 4-pin, angled, unshielded, for power supply, for cable diameter 3 mm 6.5 mm Head B: Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1204-W	6007303
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: PROFINET</li> <li>Cable: CAT5, CAT5e</li> <li>Description: PROFINET, shielded, Head A: male connector, M12, 4-pin, angled, D coded, shielded, for cable diameter 4 mm 8 mm</li> <li>Connection systems: IDC quick connection</li> <li>Permitted cross-section: 0.14 mm² 0.34 mm²</li> </ul>	STE-1204-WZ	6048262
P F	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P- N1MRJA4	2106184
68	<ul> <li>Connection type head A: Male connector, M12, 4-pin, straight, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> </ul>	YM2D24-100P- N1MRJA4	2106185

	Brief description	Туре	part no.
36	Application: Drag chain operation, Zones with oils and lubricants     Connection type head A: Male connector, M12, 4-pin, angled, D-coded     Connection type head B: Male connector, RJ45, 4-pin, straight     Signal type: Ethernet, PROFINET     Cable: 2 m, 4-wire, PUR, halogen-free     Description: Ethernet, shieldedPROFINET     Application: Drag chain operation, Zones with oils and lubricants	YN2D24-020P- N1MRJA4	2106162
9 6	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 3 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-030P- N1MRJA4	2144265
96	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P- N1MRJA4	2106163
9 6	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 10 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-100P- N1MRJA4	2106164
9 6	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, RJ45, 4-pin, straight</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 20 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-200P- N1MRJA4	2127664
	<ul> <li>Connection type head A: Male connector, M12, 4-pin, angled, D-coded</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 5 m, 4-wire, PUR, halogen-free</li> <li>Description: Ethernet, shieldedPROFINET</li> <li>Application: Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P- N1N2D24	2127662
	<ul> <li>Connection type head A: Male connector, RJ45, 4-pin, straight</li> <li>Connection type head B: Male connector, M12, 4-pin, angled, D-coded</li> <li>Signal type: Ethernet, PROFINET</li> <li>Cable: 30 m, 4-wire, CAT5, CAT5e, PVC</li> <li>Description: Ethernet, shieldedPROFINET</li> </ul>	SSL-2J04-F30MZ	6059450
00	<ul> <li>Connection type head A: Female connector, M12, 4-pin, D-coded</li> <li>Connection type head B: Female connector, RJ45, 8-pin</li> <li>Signal type: Ethernet</li> <li>Cable: CAT5, CAT5e</li> <li>Description: Ethernet, shielded</li> <li>Note: Cabinet through</li> </ul>	Feedthrough fe- male connector Ethernet RJ45	6048180

## SICK AT A GLANCE

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For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

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