

ATM60-P4H13X13

ATM60 PROFIBUS

ABSOLUTE ENCODERS

SICK
Sensor Intelligence.

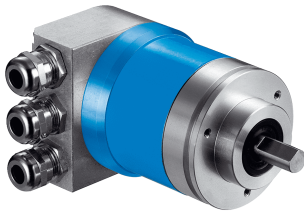


Illustration may differ



Ordering information

Type	Part no.
ATM60-P4H13X13	1030013

Other models and accessories → www.sick.com/ATM60_PROFIBUS

Detailed technical data

Performance

Max. number of steps per revolution	8,192
Max. number of revolutions	8,192
Resolution power	8,192 x 8,192
Resolution	13 bit x 13 bit
Error limits	± 0.25°
Repeat accuracy	0.1°
Measuring step	0.043°
Initialization time	1,250 ms ¹⁾

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

Interfaces

Electrical interface	PROFIBUS
Bus interface	PROFIBUS DP, RS-485 ^{1) 2) 3)}
Set (electronic adjustment)	Via PRESET push button or protocol
Data protocol	Profile for encoders (07hex) – Class 2
Address setting	0 ... 127, DIP switches or protocol
Data transmission rate (baud rate)	9.6 kBaud, 12 MBaud, automatic detection
Status information	LED green (operation), LED red (bus activity)
Bus termination	DIP switch ⁴⁾

¹⁾ EN 50 170-2.

²⁾ DIN 19245 part 1-3.

³⁾ Electrically isolated by optocoupler.

⁴⁾ Should only be connected in the final device.

Electrical data

Connection type	Bus adaptor ¹⁾
Operating voltage range	10 V ... 32 V
Power consumption max. without load	≤ 2 W

¹⁾ Please order the Profibus adaptor separately.

²⁾ 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.

MTTFd: mean time to dangerous failure150 years (EN ISO 13849-1) ²⁾

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Mechanical data

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations – www.sick.com