

SICK ATM90 PROFIBUS ENCODERS

Product Data Sheet

ATM90-PTG13X13

absolute multiturn encoder

FUNCTION absolute multiturn encoder	FAMILY SICK ATM90 PROFIBUS encoders	ORIGIN Japan	WEIGHT Confirm before dispatch
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SICK ATM90-PTG13X13 is a absolute multiturn encoder for the SICK ATM90 PROFIBUS encoders. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	ATM90-PTG13X13
Product Class	Absolute Multiturn Encoder
Product Family	SICK ATM90 PROFIBUS encoders
Singleturn Resolution	13 bit / 8,192 steps
Multiturn Range	13 bit / 8,192 revolutions
Angular Step	0.043°
System Accuracy	±0.25°
Repeatability	0.1°
Communication	PROFIBUS DP / DPV0
Station Address	0 to 127

ADDITIONAL PRODUCT DATA

Bus Rate	9.6 kbit/s to 12 Mbit/s
Initialization Time	1,250 ms
Position Cycle	0.25 ms
Cable Entry	M16 × 1.5

OFFICIAL APPLICATIONS

- Observe remote-station communication during station reconnection: Inside the distributed I/O and supervisory servers, ATM90-PTG13X13 serves its documented function as a absolute multiturn encoder. During station reconnection, the system uses this function to restore cyclic data exchange with the remote station, helping it return the station to the controller scan.
- Align treatment-area fiber ring during single-link interruption: In the automation chain for the managed switches and process-area controllers, ATM90-PTG13X13 supports the configured automation role as a absolute multiturn encoder. During single-link interruption, the system uses this function to move process traffic over the remaining network path, helping it keep the treatment process visible during the link event.
- Observe filling-line communication during line-speed change: At the control layer of the fillers, checkweighers and line controllers, ATM90-PTG13X13 performs its assigned control role as a absolute multiturn encoder. During line-speed change, the system uses this function to carry cyclic control and diagnostic traffic between line devices, helping it keep filling and inspection events synchronized.

SYSTEM COMPATIBILITY

Match ATM90-PTG13X13 to the installed SICK ATM90 PROFIBUS encoders, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[SICK official product documentation and manufacturer catalog](#)

AMIKON PRODUCT SUPPORT

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