

TS10-421-8MA12

Industrial automation components

Manufacturer	Siemens
Catalog number	ts10-421-8ma12
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	6ES5 421-8MA12
Product Type	Digital Input Module
Compatibility	S5-90U, S5-95U, S5-100U, ET 100U, ET 200U
Input Voltage	24 V DC
Signal Voltage Range	13 to 33 V for '1' signal, 0 to 5 V for '0' signal
Input Current	Approximately 7 mA at '1' signal
Inherent Delay	Approximately 2.3 ms for '0' to '1' transition, 3.5 ms for '1' to '0' transition
Cable Length	Up to 100 meters for unshielded cables m
Power Consumption	Approximately 0.8 W
Dimensions	111 x 142 x 58 mm
Weight	190 g

Description

The Siemens 6ES5 421-8MA12 is a digital input module designed for the SIMATIC S5 series programmable logic controllers (PLCs). This module features eight non-isolated digital inputs operating at 24 V DC, making it suitable for applications where electrical isolation between channels is not required. It is compatible with Siemens S5-90U, S5-95U, S5-100U, ET 100U, and ET 200U PLC systems. The module is ideal for integrating digital signals from field devices such as sensors and switches into automation systems. Key characteristics include a rated voltage of 24 V DC, a signal voltage range of 13 to 33 V for '1' signals and 0 to 5 V for '0' signals, and an input current of approximately 7 mA at a '1' signal. The inherent delay times are approximately 2.3 ms for '0' to '1' transitions and 3.5 ms for '1' to '0' transitions. The module supports cable lengths up to 100 meters for unshielded cables. Its power consumption is approximately 0.8 W, and it has dimensions of 111 x 142 x 58 mm, with a weight of 190 g.