

## S7-400 digital inputs/outputs

Module type	Digital inputs SM 421				
Special features of this module	Module for the acquisition of very fast signals with parameterizable input delay and process alarms; diagnostics	Simple, economically priced module for the acquisition of frequently required signals with high channel density	Direct acquisition of DC and AC voltages at high channel density		Suitable for DC and AC voltage; can be implemented as active high and active low module
Type of voltage	DC		UC		
Input voltage	24 V		120 V	120 / 230 V	24 ... 60 V
Diagnostics capability	●				●
Interrupt capability	●				●
Input delay	0.05 ... 3 ms <sup>1)</sup>	3 ms fixed	<25 ms fixed		0.5 ... 20 ms <sup>1)</sup>
Number of channels	16	32	32	16	16
Galvanic isolation: Number of groups	2	1	4	4	16
Order No. group: 6ES7	421-7BH.	421-1BL. <sup>2)</sup>	421-1EL.	421-1FH.	421-7DH.

Module type	Digital outputs SM 422				
Special features of this module	Simple, economically priced module for standard applications	Simple, economically priced module for standard applications with high channel density	Extensive diagnostics functions; parameterizable substitute values	Electronic switching of high currents and voltages; no wear compared to relay output	Universal relay output group
Type of voltage	DC			AC	Relays
Output voltage	24 V			120 / 230 V	5 ... 125 V DC
Output current	2 A	0.5 A		2 A	5 A
Diagnostics capability			●	●	
Interrupt capability			●		
Number of channels	16	32	32	16	16
Galvanic isolation: Number of groups	2	1	4	4	8
Order No. group: 6ES7	422-1BH.	422-1BL. <sup>2)</sup>	422-7BL.	422-1FH.	422-1HH.

<sup>1)</sup> Parameterizable

<sup>2)</sup> As SIPLUS extreme component also for corrosive atmosphere/condensation (for further details, see page 98 or [www.siemens.com/siplus-extreme](http://www.siemens.com/siplus-extreme))