

Digital Modules			
Modules Specifications	DI 530	DO 580	DO 571
Label	DI530	DO580	DO571
Number of channels	32	32	16
Output type	-----	High side switch	High side switch
Input type	Sink	-----	-----
Input Impedance	> 2KΩ	-----	-----
Rated supply voltage	24V DC	24V DC	24V DC
Permitted supply voltage range	18V DC to 30V DC	18V DC to 30V DC	18V DC to 30V DC
Minimum Output voltage	-----	> Vs - 0.8V (at 1 signal)	> Vs - 0.8V
Maximum Output current	-----	0.5A (at 1 signal)	0.4A
Maximum leakage current	-----	0.5mA @ 30V DC	0.5mA @ 30V DC
Maximum Output frequency (Resistive loads)	-----	100Hz	100Hz
Maximum Output frequency (Inductive loads)	-----	1 Hz	1 Hz
Maximum Output frequency (Lamp loads)	-----	100Hz	100Hz
Short circuit protection	-----	Yes (Electronic)	Yes (Electronic)

Short circuit peak current	-----	1.5A	1.4A
Voltage induced on current interruption limited to	-----	Vs ± 48V	Vs ± 48V
Isolation type (to backplane bus)	Optocoupler	Optocoupler	Opto-coupler
Isolated in groups of	8	8	8
Isolation between bus and analog section	2500V DC	2500V DC	2500V DC
Power consumption (from backplane bus)	Maximum : 2W	Maximum : 2W	Maximum : 2W
	Typical : 0.6W	Typical : 0.6W	Typical : 1.3W
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Storage temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Relative humidity	5% to 95%	5% to 95%	5% to 95%
Reference Standard	IEC 61131-2	IEC 61131-2	IEC 61131-2
Terminal	BPL 922S , BPL 921D	BPL 922S , BPL 921D	BPL 922S , BPL 921D
Diagnostics	-----	Group Short-Circuit, Missing Field Power, Board Temperature, Internal Hardware Error	Short-Circuit, Wire Break, Missing Field Power, Internal Hardware Error, Board Temperature
Rated Input voltage value	24V DC	-----	-----
Maximum permissible input voltage	±40V DC	-----	-----
Input high level (1)	13V DC to 30V DC	-----	-----
Input low level (0)	-30V DC to +5V DC	-----	-----
Maximum Input frequency	300Hz	-----	-----
Typical Input current (at 1 signal)	4mA @ 24V DC	-----	-----
Maximum Input Current	12mA @ 40V DC	-----	-----
Maximum permissible quiescent current	1mA	-----	-----