

BNS SERIES - COMPATIBLE SAFETY CONTROLLERS

SELECTION CHART



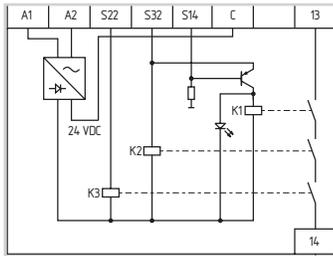
AVAILABLE STANDARD MODELS

Safety Controller Suitable for use with Coded-Magnet Sensor Part Numbers below	Max. Number of Directly-Connected BNS Series Sensors (without "daisy chaining")	Safety Controller Part Number (and available supply voltages)	Number of Safety Outputs (Enabling Paths)	Max. Achievable Safety Control Category per EN 954-1	Type of Reset	Feedback Circuit
BNS250... } BNS33... } BNS303... } 12Z or 12ZG	1	AES1102 (24VAC, 24VDC, 110VAC)	1	1	Automatic	No
	2	AES1112 (24VAC, 24VDC, 110VAC)	1	1	Automatic	No
BNS250... } BNS33... } BNS303... } 11Z or 11ZG	1	AES1135 (24VDC)	1	1/3*	Automatic	No
	2	AES1165 (24VDC)	1	1/3*	Automatic	No
	1	AES1235 (24VDC)	2	3	Automatic	Yes
	2	AES1265 (24VDC)	2	3	Automatic	Yes
BNS16-12Z BNS33-12Z-2187	1	AES2135 (115VAC)	1	1/3*	Automatic	No
	2	AES2165 (115VAC)	1	1/3*	Automatic	No
	1	AES2335 (24VDC, 115VAC)	3	3	Automatic	Yes
BNS250... } BNS33... } BNS303... } 11Z	1	AES1337 (24VAC/DC)	3	4	Automatic or Manual	Yes
	6	AES2285 (24VAC/DC, 48-240VAC)	2	3	Automatic or Manual	Yes
BNS16-12Z BNS33-12Z-2187						

*Category 3 when safety controller is directly connected to load.

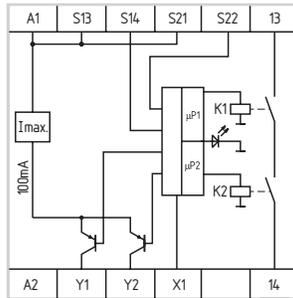
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AES1102/1112



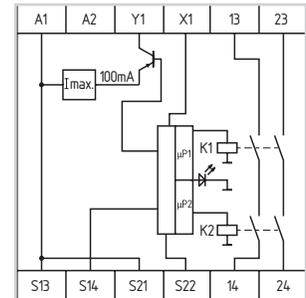
Model 1102

AES1135/1165



Model 1135

AES1235/1265



Model 1235

CHARACTERISTICS

Operating voltage (U _e)	24VDC ± 15 %
	110VAC
	230VAC
	24VAC
	42VAC
Operating current (I _e)	0.1A
Start conditions	automatic
Feedback circuit	no
Stop category	0
Control Category	1
Monitored inputs	2 NC / 1 NO
Enabling contacts	1 enabling path
Contact load capacity	max. 250VAC max. 4 A (cos ρ = 1)
Termination	screw terminals
Cable size	max. 2.5 mm ²
Status indicator	LED
Dimensions	22.5 x 75 x 110 mm
Standards	IEC/EN 60204-1; EN 954-1; EN60947-5-3; BG-GS-ET-14; BG-GS-ET-20
Agency recognition	UL, CSA, CE
For use with	
BNS250	12Z or 12ZG
BNS33	12Z or 12ZG
BNS303	12Z or 12ZG

AVAILABLE MODELS

Model Number	Supply Voltage
AES1102-24DC	24VDC
AES1102-24AC	24VAC
AES1102-115	115VAC
AES1112-24DC	24VDC
AES1112-24AC	24VAC
AES1112-115	115VAC

CHARACTERISTICS

Operating voltage (U _e)	24VDC ± 15 %
Operating current (I _e)	0.2A
Start conditions	automatic
Feedback circuit	no
Stop category	0
Control Category	1
Monitored inputs	1 NC / 1 NO
Enabling contacts	1 enabling path
Contact load capacity	max. 250VAC max. 6 A (cos ρ = 1)
Signalling output	2 transistor outputs Y1 + Y2 = max. 100 mA p-type, short-circuit proof
Termination	screw terminals
Cable size	max. 2.5 mm ²
Status indicator	LED (ISD)
Dimensions	22.5 x 100 x 121 mm
Standards	IEC/EN 60204-1; EN 954-1; EN60947-5-3; BG-GS-ET-14; BG-GS-ET-20
Agency recognition	BG, UL, CSA, CE Pending
For use with	
BNS250	11Z or 11ZG
BNS33	11Z or 11ZG
BNS303	11Z or 11ZG
BNS16-12Z	
BNS33-12Z-2187	

AVAILABLE MODELS

Model Number	Supply Voltage
AES1135	24VDC
AES1165	24VDC

CHARACTERISTICS

Operating voltage (U _e)	24VDC ± 15 %
Operating current (I _e)	0.2A
Start conditions	automatic or start button
Feedback circuit	yes
Stop category	0
Control Category	3
Monitored inputs	1 NC / 1 NO
Enabling contacts	2 enabling paths
Contact load capacity	max. 250VAC max. 6 A (cos ρ = 1)
Signalling output	1/2 transistor outputs Y1 + Y2 = max. 100 mA p-type, short-circuit proof
Termination	screw terminals
Cable size	max. 2.5 mm ²
Status indicator	LED (ISD)
Dimensions	22.5 x 100 x 121 mm
Standards	IEC/EN 60204-1; EN 954-1; EN60947-5-3; BG-GS-ET-14; BG-GS-ET-20
Agency recognition	BG, UL, CSA, CE Pending
For use with	
BNS250	11Z or 11ZG
BNS33	11Z or 11ZG
BNS303	11Z or 11ZG
BNS16-12Z	
BNS33-12Z-2187	

AVAILABLE MODELS

Model Number	Supply Voltage
AES1235	24VDC
AES1265	24VDC

