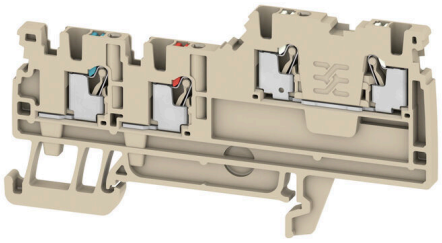
Data sheet

AIO21 1.5 SI

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



With the current levels of automation, there are more and more sensorsmonitoring the production process. This increases the number of signals tobe combined and structured. Given the restricted space in the panel, this canbecome a real challenge. Our application-specific initiator/actuator terminalblocks (AIO) are specially designed for the signal wiring requirements posed byautomation now and into the future. You can benefit from tailored, really compactsolutions for the structured wiring of initiator and actuator signals with the inputand output modules of a programmable logic controller (PLC).

General ordering data

Version	Initiator/actuator terminal, PUSH IN, 1.5 mm², 250 V, 13.5 A, dark beige
Order No.	1992260000
Type	AIO21 1.5 SI
GTIN (EAN)	4050118377446
Qty.	100 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	42 mm	Depth (inches)	1.6535 inch
Depth including DIN rail	43 mm	Height	80 mm
Height (inches)	3.1496 inch	Width	3.5 mm
Width (inches)	0.1378 inch	Net weight	6.54 g

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-60 °C	Continuous operating temp., max.	130 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Material data

Basic material	Wemid	Colour	dark beige
Colour of operational elements	blue, red, white	UL 94 flammability rating	V-0

Rating data IECEx/ATEX

Certificate No. (ATEX)	TUEV17ATEX8031U	Certificate No. (IECEX)	IECEXTUR17.0016U
Max. voltage (ATEX)	220 V	Current (ATEX)	12 A
Wire cross section max. (ATEX)	1.5 mm²	Max. voltage (IECEX)	220 V
Current (IECEX)	12 A	Wire cross section max. (IECEX)	1.5 mm²
Marking EN 60079-7	Ex eb II C Gb	Ex 2014/34/EU label	II 2 G D

System specifications

End cover plate required	Yes	Number of potentials	3
Number of levels	2	Number of clamping points per level	2
Levels cross-connected internally	No	PE connection	No
Mounting rail	TS 35	N-function	Yes
PE function	No	PEN function	No

Additional technical data

With snap-in pegs	No	Open sides	right
Snap-on	No	Type of fixing	Snap-on

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Installation advice	Rail	Explosion-tested version	Yes
Type of mounting	TS 35		

CSA rating data

Wire cross section max. (CSA)	14 AWG	Certificate No. (CSA)	200039-70089609
Voltage size D (CSA)	150 V	Current size D (CSA)	13 A
Wire cross section min. (CSA)	26 AWG		

Conductors for clamping (rated connection)

Gauge to IEC 60947-1	A1		
Wire connection cross section AWG, max.	AWG 14		
Connection direction	top		
Stripping length	8 mm		
Type of connection 2	PUSH IN		
Type of connection	PUSH IN		
Number of connections	4		
Clamping range, max.	1.5 mm²		
Clamping range, min.	0.14 mm²		
Blade size	0.4 x 2.0 mm		
Wire connection cross section AWG, min.	AWG 26		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.14 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	1.5 mm²		
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	0.14 mm²		
Wire connection cross section, finely stranded, max.	1.5 mm²		
Wire connection cross section, finely stranded, min.	0.14 mm²		
Connection cross-section, stranded, max.	1.5 mm²		
Connection cross-section, stranded, min.	0.14 mm²		
Wire connection cross-section, solid core, max.	1.5 mm²		
Wire connection cross-section, solid core, min.	0.14 mm²		
Connection cross-section, finely stranded, min.	0.14 mm²		
Tube length for wire-end ferrule with plastic collar DIN 46228/4	Tube length	min.	6 mm
		max.	8 mm
	Cross-section for conductor connection	min.	0.14 mm²
		max.	0.75 mm²
Tube length for wire-end ferrule without plastic collar DIN 46228/1	Tube length	min.	5 mm
	Cross-section for conductor connection	nominal	0.25 mm²
	Tube length	nominal	6 mm
	Cross-section for conductor connection	min.	0.5 mm²
		max.	1 mm²
	Tube length	nominal	10 mm
	Cross-section for conductor connection	nominal	1.5 mm²

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Technical data

General

Wire connection cross section AWG, max.	AWG 14	Installation advice	Rail
Wire connection cross section AWG, min.	AWG 26	Standards	In accordance with IEC 60947-7-1
Mounting rail	TS 35		

Rating data

Rated cross-section	1.5 mm²	Rated voltage	250 V
Rated DC voltage	250 V	Nominal current	13.5 A
Current at maximum wires	13.5 A	Standards	In accordance with IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	1.83 mΩ	Rated impulse withstand voltage	4 kV
Power loss in accordance with IEC 60947-7-x	0.56 W	Surge voltage category	III
Pollution severity	3		

UL rating data

Conductor size Factory wiring max. (cURus)	14 AWG	Voltage size D (cURus)	150 V
Certificate No. (cURus)	E60693	Conductor size Field wiring min. (cURus)	26 AWG
Conductor size Factory wiring min. (cURus)	26 AWG	Current size D (cURus)	13 A
Conductor size Field wiring max. (cURus)	14 AWG		

Important note

Product information	For the wire end ferrules H1/10 and H1.5/10 a stripping length of 10 mm is to apply.

Classifications

ETIM 8.0	EC000900	ETIM 9.0	EC000900
ETIM 10.0	EC000900	ECLASS 14.0	27-25-01-12
ECLASS 15.0	27-25-01-12		

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Drawings