AUTOMO	RELAY TERMINAL BLOCK						Specifications ABS Series									
		Α	BS	Serie	S		Model			ABS-S04 ABS-S04	PA-CN TN-CN		ABS-H16PA-NN(PN ABS-H16TN-NN(PN)	ABS-H32PA	-NN(PN) I-NN(PN)
	М	А	N	I U	Α	L	Rated v	oltage	e	24VDC :	10%	×4			250VAC 2A	30VDC 24 ^{%1}
	-						Rated lo	ad vo	oltage & ci	Irrent 250VAC	3A, 30VDC 3	۹~۱			(2A/1point, 8	8A/1COM)
CE			alanti				Power consum	ption	PA type TN type	Max. 10. Max. 8.5	5mA^- mA ^{**2}		Max. 10.5mA ^{~*} /Ma Max. 8.5mA ^{%2} /Max	x. 15.5mA	3	
			1.00				Output t	type		1a conta	ct relay outpu	t		1		
			- 5.2	111111	THE R		Number	r of ou r of co	onnectors	4points			16points 20pins		32points(8po 40pins	pints/1 COM)
						/	Applicat	ble wi	ire	Min. 1.2	imm ²	20 mg	2005)			
	ann	In	Im	11-1	Anteres		Dielectri	ic stre	enoth	2,000VA	C 50/60Hz for	1 min	gger) ute (between coil and	I contacts)		
A AREA								Vitration Mechanical			1,000VAC 50/60Hz for 1 minute (between contacts of same polarity) ^{3×4} 0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each X, Y, Z direction for 2 h					
								Malf	function chanical	0.75mm a	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each X, Y, Z direction for 1 6.00m/s ² (Approx. EOC) in X, X, Z directions for 2 imon					on for 10 minu
						Shock	Malf	function	147m/s ²	147m/s ² (Approx. 15G) in X, Y, Z directions for 3 times						
Than For vou	c you very r safetv. r	' muc bleas	ch for se rea	r selecting / ad the foll	Autonics owina k	s products. efore usina.	Environ- ment	Amb	pient tempe pient humid	ity 35 to 85	*C, Storage: %RH, Storage	-25 to e: 35 to	85%RH			
Caution f		. 63	fot	<u>,</u>		5	Material	I		CASE & TERMIN	BASE: MPPO AL PIN: Brass	D,	CASE: MPPO, BAS TERMINAL PIN: Br	E: PA66(G ass	\$25%)	
Please keep these		and r		them before i	using this	unit	Tighteni	ing to	rque	0.4 to 0. Jumper	N·m ar: 2EA		Jumper bar: 2EA			
%Please observe the	e following fo	or safe	ety.		song ano		Approva	al		(Model N	o: JB-7.62-04)	(Model No: JB-7.62	-08)		
A Caution Broduct r	jury may result	t if instr	ructions	are not followed	l. o oro not foll	hour	Unit weight		PA type	Approx. 6	Approx. 68g		Approx. 224g		Approx. 345g	
*The following is an e	kplanation of t	the sv	mbols	used in the one	ration man	ual.	×1: Rela	y cont	LIN type tact capaci	Approx. 7	ve load.		Approx. 235g %2: The power cor	sumption ir	Approx. 370g	urrent by one re
▲Caution: Injury or d	anger may oc	cur un	ider spe	ecial conditions			※3: The p ※5: ABS-	power -H32	Consump	ion including pov N) does not prov	er LED current de jumper bar.	of ' ※2 '	%4: For TN type(F	ujitsu relay),	it is 750VAC.	
▲ Warning							 Relay 	nment /	resistance	is rated at no fre	ezing or conder	isation.				
1. In case of using t ship, vehicle, train	his unit with airplane, co	n mac ombus	hinery: stion a	(Ex: nuclear pparatus, saf	power co	ontrol, medical equipment, , crime/disaster prevention	1)Coil ra	atings	s Nominal	Must sporets :	oltogo	Must		Nomina	I Coil	Power
equipment, etc) wh safe device.	ich may caus	se dan	nages t	to human life o	or propert	, it is required to install fail-	PA1a-24	11/ 3		70% max of N	unage	5% n	in of Nominal voltage	current	resistance	 consumption 180mW
It may cause a fire, h 2. Do not repair or ch	uman injury o eck units dur	or dam ing po	age to p ower or	property. n.			NYP24W	v-к 2	24VDC	16.1V	ininai voitage	2.4V	in or Norman Voltag	5mA	4.800Ω	120mW
It may cause electric 3. Do not use this uni	shock. t in place wh	ere th	iere are	e flammable or	explosive	gas, humidity, direct ray of	XAll val	ues ir	n the tabl	e are measured	at 20°C with	a toler	ance of ±10%		,	
the sun, radiant hea It may cause explosi	at, vibration, on.	impac	t etc.				2)Conta Maker	ict ra	tings		MATSUSH	TA(Pa	nasonic)	TAKAMIS	SAWA(Fuiits	su)
4. Do not disassemble It may cause electric	and modify shock or a fin	this u e.	init. Ple	ease contact u	s if it is re	quired.	Model		Arrango	mont	PA1a-24V	DOT 1		NYP24W	-к	.,
Caution Caution This unit shall not be used outdoors. It may shorten the life cycle of the product or cause electric shock. Please observe the rated specifications. It may shorten the life cycle of the product and cause a fire. In cleaning the unit, do not use water or an organic solvents. And use dry cloth. It may cause electric shock and a fire.						Contact		Material	a k b	Au-clad AgNi type		e Gold o		overlay silver alloy		
								Resistar Rating (r	esistive)	Max. 30mΩ 5A 250VAC	(at 1A	5A 30VDC	3A 250VA	C 3A	A 30VDC	
							Rating		Max. sw Min. swite	tching power ching capacity	1,250VA 100mVDC	100uA	150W	750VA 5VDC 1n	90 nA	W
								Max. swi Max. swi	ching voltage	rrnt 5A		110VDC 270VA		C 150VDC		
4. Do not inflow dust It may cause a fire	or wire dreg	gs int n.	o the u	unit.					Insulatio	n resistance	Min. 1,000M	1Ω(at 5 0/60H	00VDC megger)	3 000VAC	2 50/60Hz for	or 1 minute
Ordering information							Electrica	al er-	strength	Open contacts	1,000VAC 50/60Hz for 1 minute 7		750VAC	50VAC 50/60Hz for 1 minute		
	16 PA -	- N					istics		Operate	time	Max. 10ms			3,000 V		
							_	Release	time	3.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each X, Y, Z		at frequency of	5.0mm ar	nplitude at fr	requency of	
			Va	aristor installati	on N	No install]		Vibration	Mechanicar	direction for	1 hou	t frequency of	direction 1	for 1 hour	
			Input Ic	ogic	С	Non-COM	Mechani characte	ical er-		Malfunction	10 to 55Hz(direction for	for 1 m	in.) in each X, Y, Z nutes	10 to 55H direction 1	lz(for 1 min.) for 10 minute) in each X, Y, es
			P	NPN(COM+) PNP(COM-)	-		Shock	Mechanical	980m/s ² (10) directions fo	0G) in or 3 tim	X, Y, Z es	1000m/s ² directions	(100G) in X, for 3 times	Y, Z		
	Bak	ou turo			TN	TAKAMISAWA(Fujitsu) NYP	i			Malfunction	147m/s ² (15 directions fo	G) in X or 3 tim	, Y, Z es	100m/s ² (100m/s ²)	10G) in X, Y, for 3 times	Z
	LIKE	այ ւյրն	<u> </u>		PA	MATSUSHITA(Panasonic) PA	Expecte life	ed	Mechani Electrica	cai ^{%1}	Min. 20,000	,000 o 0 oper	ations(3A 250VAC, 3	s/min) 0VDC resi	stive load)	
					04	04EA	Environm	nent	Ambient Ambient	temperature humidity	-40 to 70°C	1		-40 to 90° 35 to 80%	C RH	
				16	16EA	Unit wei	ight	norotions	min EA 250\//	Approx. 3g			Approx. 3.5g			
Connector type					32	32EA	81: 50,0 Enviro	 Environment resistance is rated at no freezing or condensation. 								
					S н	Screw Hirose connector	🔳 In	Installation								
Terminal ty	be					Screw	1. Mour • Mor	nting unting	g to and g	removing fro	m DIN rail.					~
Item						Relay terminal block] 1)Pu] "(2)Uu	ush ra ①".	ail lock to	the direction	, Pļ	M			ail connector	f /
							2)Ho rai 3)Pi	il. ush th	ne unit do	wn to the direct	ion k	JUU JUU JUU	2005 2017		DIN rail	
				in el			"@ to)" and the o	d then pu opposite c	sh up the rail lo lirection "①".					G	
- A	e crimp) te)rmi	inai											il lock	
			r	A								♥(1)	0 🕈	_0,		
			-	-										1 100		
	0		Ē		0	(Linit: mm)	• Rer 1)In	movin nsert a	ig a screwdr	ver into hole of	ail lock and p	ull the	0 F		Time	A.
	U D B		E		0	(Unit: mm)	• Rer 1)In lo 2)R	movin nsert a ick ou temov	ig a screwdr it to the di ving the ui	ver into hole of rection "①". hit by pulling to t	ail lock and pine direction	ull the	° ↑			
Applicable	B Max. 16.0)	C Min. 3	D 3.0 Max	<u>ں</u> م د. 5.9	(Unit: mm) Applicable wires AWG 22-16	• Rer 1)In Io 2)R	movin nsert a ick ou temov	ig a screwdr it to the di ring the ui	ver into hole of rection "①". hit by pulling to t	ail lock and pr	ull the	° €			

tions				Wire connect	ctions			• Jumper bar	0.7		(Unit: mm)
ABS-S04	PA-CN ABS-H16	PA-NN(PN)	ABS-H32PA-NN(PN)	• ABS-S04PA-CN / ABS-	504TN-CN			7.62 	2.7		
ABS-S04 24VDC ±	IO%	TN-NN(PN)	ABS-H32TN-NN(PN)	INPUT (+) (+) (+)							
t 250VAC 3	3A, 30VDC 3A ^{×1}		250VAC 2A, 30VDC 2A ^{&1} (2A/1point, 8A/1COM)					$\ \nabla\ \Psi\ \Psi\ C$	9.5		
Max. 10.5	imA ^{*2} Max. 10.5	5mA ^{%2} /Max. 1 mA ^{%2} /Max. 13	5.5mA ^{**3}						╧╴╞┛	Model JB-7.	62-04 JB-7.62-8
1a contac	t relay output			UZIRY4 UZIRY3				[N]		[N] Size 29.5	60.0
4points	16points 20pins		32points(8points/1 COM) 40pins	16 15		W Hiroso connector m	-	How to install i	imper har		
Min. 1.25	mm ²			• ABS-H16NN Connectors		: HIF3BA-20PA-2.5	54DSA	1)Cut the jumper bar for the desired	length 2)Ui	nfasten the terminal screv	vs for
2,000VAC	50/60Hz for 1 minute (betwe	en coil and co	ntacts)	$\begin{smallmatrix} 3 & 4 & 1 & 2 & 20 & 18 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0$		19 17 15 13 11 9 0 0 0 0 0 0	7 5 0 0	to fit cutting V groove with nipper,	etc. ci	ommon.	
1,000VAC 0.75mm a	politude at frequency of 10 to 5	en contacts of 55Hz(for 1 min.)	in each X, Y, Z direction for 2 hours		₥₲₼₲₼₲₼	क़ऺक़ऺक़ऺक़ऺक़ऺ	160160				
0.75mm at 500m/s ² (A	mplitude at frequency of 10 to 55 Approx. 50G) in X, Y, Z directio	6Hz(for 1 min.) i ns for 3 times	n each X, Y, Z direction for 10 minutes								
147m/s ² (A	Approx. 15G) in X, Y, Z directio	ns for 3 times		Terminals	2222	11111		Jumper bar cutting V groove		A sale	
35 to 85%	RH, Storage: 35 to 85%RH		0466/0259/ \				4+ R15+ R16+	3)Insert jumper bar under the unfast	ened 4)Ti	ghten all of screws upside	e the jumper
TERMINA	L PIN: Brass	AL PIN: Brass	A66(G25%)	• ABS-H16 -PN	n3- n4- n3- n0- n/- no	0- NU- NU- NII- NI2- NI3-	RI4- RI5- RI0-1	terminal screws.	bi	ar.	
Jumper b	ar: 2EA Jumper b	oar: 2EA	-	Connectors	16 14 12 10 8 6	19 17 15 13 11 9	7 5				
CE		0. 00-1.02-00)			┤╶╴┤╶╶┤╶╶┤╶╶┤╶╶┤ ╋┐┎╋┐┎╋┐┎╋┐┎╋┐┎╋┐	┽┄┽╌┽╶┽╶┽					
Approx. 68 Approx. 71	Bg Approx. 2: Ig Approx. 2:	24g 35g	Approx. 345g Approx. 370g	┥ ®[®]┉┥ ݡ╢ _┲ ݡ╢ _┲ ݡ			a¢îia¢îia ≢vîta				
r resistive load	I. %2: Th er LED current of '%2'. %4: Fo	ie power consun or TN type(Fujitsi	ption including LED current by one relay. I relay), it is 750VAC.								
oes not provid ited at no free	le jumper bar. zing or condensation.			Terminals				The position of two way elect	relay	ment	
				24VDC R1- R2-	古い古い古い古い古い古い R3- R4- R5- R6- R7- R8-	- R9- R10- R11- R12- R13-	R14- R15- R16-	Fujitsu relay n	eplace position	ment	
st operate vo	Must release vo	oltage 1	lominal Coil Power consumption	● ABS-H32 □ -NN		Hirose connector r 39 : HIF3BA-40PA-2.	model No. .54DSA	Panasonic re	elay replace position		
6 max. of No	minal voltage 5% min. of Nom	ninal voltage 7	.5mA 3,200Ω 180mW	Connectors	1 32 30 28 26 24 22 20 18 16 14 12 10 0 0 0 0 0 0 0 0 0 0 0 0						
1V e measured	2.4V at 20°C with a tolerance of ±1	0%	imA 4,800Ω 120mW		ଅନ୍ନ୍ୟ କ୍ଳ୍ୟକ୍କ୍କ୍କ୍କ୍ 	44444444		< Two-way ejector >			Ē
							2010-00 1010-00 1010-00		Two-way ejector		
	PA1a-24V	NY	P24W-K						for relay replacement		
t	1 Form A(SPST 1a) Au-clad AgNi type	Go	ld overlay silver alloy	Terminals	R6 R8 R9 R11 R13 R15 C1 R5 R7 C0M2 R10 R12 R14 R16	COM3 R18 R20 R22 R24 R25 R2 R17 R19 R21 R23 COM4 R26	R29 R31 R29 R31	Two-way ejector for relay replacemen	<u>t</u>		
nital) tive)	Max. 30mΩ(at 1A 6VDC) 5A 250VAC 5A 30VD	C 3A	250VAC 3A 30VDC	• ABS-H32 -PN							
ng power I capacity	1,250VA 150W 100mVDC 100uA	750 5V	DVA 90W DC 1mA	Connectors 1 3 2 4 40 38 36 34	32 30 28 26 24 22 20 18 16 14 12 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			لالتعا < ABS-S04 type >		لالتے) < ABS-H16 / AB	لالطان S-H32 type >
g voltage g currrnt	250VAC 110VDC 5A	27	OVAC 150VDC					Mount and remove Fujitsu rela	y • Moi	unt and remove Panaso	onic relay
sistance and contacts	Min. 1,000MΩ(at 500VDC m 2,000VAC 50/60Hz for 1 min.	egger) ite 3,0	00VAC 50/60Hz for 1 minute								Ť
en contacts	1,000VAC 50/60Hz for 1 minu 4,000V	ite 750	VAC 50/60Hz for 1 minute 80V		<u>***</u> *********************************		<u>*****</u> ** 				
;	Max. 10ms Max. 5ms			Terminals	R6 R8 R9 R1 R1 R13 R15 C0 R5 R7 COM2 R10 R12 R14 R16	20113 R18 R20 R22 R24 R25 R R17 R19 R21 R23 C0M4 R26	R27 R29 R31 R28 R30 R32				
chanical	3.5mm amplitude at frequent 10 to 55Hz(for 1 min.) in eac	cy of 5.0 th X, Y, Z 10	mm amplitude at frequency of to 55Hz(for 1 min.) in each X, Y, Z	Dimensions	i			Remove relay >	Mount relay >	< Remove relay >	< Mount relay >
16	direction for 1 hour 2.5mm amplitude at frequent	cy of 1.5	mm amplitude at frequency of	• ABS-S04PA-CN / AB	S-S04TN-CN		(1)=:+:	%Relay socket can be used both Fu	jitsu relay (NYP24W-K)	and Panasonic relay (PA	1a-24V).
ITUNCTION	direction for 10 minutes	dire	ection for 10 minutes $200m/s^2(100G)$ in X, Y, Z				(Unit: mm)	Caution for usir	ng		
Ifunction	directions for 3 times 147m/s ² (15G) in X, Y, Z	dire 10	ections for 3 times Dm/s ² (10G) in X, Y, Z	0000				 I his unit shall not be used bey Maintain voltage fluctuations in 	the power supply wi	thin specified range.	
	Min. 20,000,000 operations(a	at 180 times/m	in)		35.2			 When connecting PLC or other (4. Use AWG 16(1.25mm²)wire ar 	nd applicable crimp te	rminals to the terminal	block.
perature	Min. 100,000 operations(3A -40 to 70°C	250VAC, 30VE	0C resistive load) to 90°C		┞╛╵╻┠┑┛╵║			 Furn OFF the power supply be Power shall be disconnected be 	etore wiring or removil before replacing relay.	ng connectors.	
nidity	5 to 85%RH Approx. 3g	35 Ар	to 80%RH prox. 3.5g					 Do not use this unit at below p Place where there is severe Place where there is severe 	e vibration or impact.		
n5A 250VA	C, 30VDC resistive load.(at 20 o freezing or condensation.)times/min)		32				 Place where strong alkalis Place where there are direct Place where there are direct 	or acids are used. It ray of the sun.		
n								 8. Installation environment. 9. It shall be used indeer 			
noving fro	m DIN rail.							 ③ Pollution Degree 2 	 ④ Installatio 	n Category II	
direction		MD	DIN rail connector	• ABS-H16PA- N/ABS	S-H16TN-□N • ABS-H32F	PA-□N/ABS-H32TN-□N			t above instruction	ns are not followed.	
ctor onto DII		۳,	DIN rail 🚽 📏 👌		A B 4-ø4.5	. 84		Proximity sensors	Counters		
p the rail loc tion "①".								Area sensors Photoelectric sensors	Timers Display units	Autonic	S Corporation
			Rail lock					Fiber optic sensors Door/Door side sensors	Panel meters Pressure sensors	Satisfiable Partner For	r Factory Automation
		∀	0				72	Sensor controllers Graphic/Logic panels	Rotary encoders Power controllers	HEAD QUARTERS : 41-5. Yongdang-dong, Yangsan-si, Kanan	, Gyeongnam, 626-847,
into hole of ra	ail lock and pull the	0 Z			<u> </u>			Temperature controllers Tachometer/Pulse(Rate) meters		Bidg. 402 3rd FL., Bucheon Techn	10 Park, 193, Yakdae-dong,
y pulling to th	e direction "@".	1			5.9 7.62	34-M3(ABS-H16) 34 40-M3(ABS-H32)	4	Temperature/Humidity transducers Switching power supplies		Wonmi-gu, Bucheon-si, Gyeongg TEL: 82-32-610-2730 / FAX: 82- E-mail: sales@autonics.co	-do, 420-734, Korea 32-329-0728 xom
			Rail lock			ABS-H16 type AB	BS-H32 type	Stepping motors/drivers/motion control Field network devices	ers	The proposal of a prod	luct improvement and
unt on the p use M4×15r	anel with rail locks. mm of spring washer screws a .7 to 1.0Nm	and to use flat	washers which are diameter ø6.			A 140 17 B 70 10	73 00	Laser marking system(CO _{2.} Nd:YAG) Laser welding/soldering system			AS-KE-01-T0004F