Dítec

Ditec PASAA2 ENTRE/MATIC

MANUFACTURER'S STATEMENT

Read this operation manual carefully before use to ensure proper operation of this product. Failure to read this operation manual may cause improper operation and may result in serious injury or death of a person. The meanings of the symbols are as follows.

	Disregard of warning may cause the improper operation causing death or serious injury of a person.
	Disregard of caution may cause the improper operation causing injury of a person or damage to objects.
NOTE	Special attention is required to the section of this symbol.
Ĩ	It is required to check the operation manual if this symbol is shown on the product.

ENGLISH

ORIGINAL

NOTE

IP1965

AUG 2013

5915822

TM-0052-2

- 1. This product is a non-contact switch intended for header mount or wall mount for use on an automatic sliding door. Do not use for any other applications.
- 2. When setting the sensor's detection area, make sure that there is no traffic around the installation site. 3. Before turning the power ON, check the wiring to prevent damage or malfunction of equipment connected to the product.
- 4. Only use the product as specified in the operation manual provided.
- 5. Be sure to install and adjust the sensor in accordance with the local laws and standards of the country in which the product is installed.
- 6. Before leaving the installation site make sure that the product is operating properly and instruct the building owner/operator on proper operation of the door and the product.
- 7. The product settings can only be changed by an installer or service engineer. When changed, the changed settings and the date shall be registered in the maintenance logbook accompanying the door.

WARNING Danger of electric shock.

Do not wash, disassemble, rebuild or repair the sensor, otherwise it may cause electric shock or breakdown of the equipment.

The following conditions are not suitable for sensor installation. NOTE -Fog or exhaust emission around the door.

-Wet floor.

-Vibrating header or mounting surface.

-Moving objects or objects that emit light near the detection area.

-Highly reflecting floor or highly reflecting objects around the door.



SPECIFICATION

Model : PASAA2 Safety / Test output : When 1st or 2nd row detects. Cover color :: Black Opto coupler (NPN) Mounting height :: O (66°) to 3.0m (9'10°) Voltage / 5 to 50VDC Detection area : See DETECTION AREA Current / 100mA Max. Detection area : See DETECTION AREA Current / 600hA Max. Detettion area : Stand-by (5 to 50VDC Current / 100mA Max. Detestion area : See DETECTION AREA Noise level : <70dBA Detection method : A tiva sinfarrate reflection (*1) Dark current / 600hA Max. Detestion method : A tiva sinfarrate reflection (*1) Dark current / 600hA Max. Detestion indicator : See Chart below Output hold time : Approx. 0.5 sec. Power consumption : < 2.5W (< 4VA at AC) Operating temperature : -20 to +55°C (-4 to 131°F) Operation indicator : Courrent / 6mA Max. (30VDC) Portamance level : 2 (EN ISO 13849-1 : 2008) Current / 6mA Max. (Resistance load) : 2 Mounting template : Area adjustment tool : Category : 2 (EN ISO 13849-1 : 2008) Youtage / 5 to 30VDC Current / 6mA Max. (Resistance load) : 2 (EN ISO 13849-1 : 2008) : Category : 2 (EN IS							
Status Operation indicator color 1sec. 1sec. Stand-by (Setting mode) Blinking Blue Image: Stand-by (Installation mode) Yellow Stand-by (Installation mode) Yellow Image: Stand-by (Operation mode) Green 1st row detection Blinking Red Image: Stand-by (Operation mode) Image: Stand-by (Operation mode) 2nd row detection Red 3rd, 4th or 5th row detection Orange Wrong dipswitch setting Red & Green blinking	*1 : The 1st and 2nd rows have presence detection function. *1 : The 1st and 2nd rows have presence detection function.		Noise level Output hold time Response time Operating temperatu Operating humidity IP rate Category Performance level Weight Accessories	Opto coupl Voltage / 5 Current / 11 Dark current : <70dBA : Approx. 0.5 : <0.3 sec. re : -20 to +55 : <80% : IP54 : 2 (EN ISO : d (EN ISO : 320g (11.2c : 1 Operatior 2 Mounting 1 Area adju 1 Cable 3m (8 × 0.22m	er (NPN) to 50VDC 00mA Max. (Resistance load) 5 sec. °C (-4 to 131°F) 13849-1 : 2008) 13849-1 : 2008) oz) n manual screws template istment tool n (9'10") m ² AWG24) (*3))	
Status Operation Indicator color Stand-by (Setting mode) Blinking Blue Stand-by (Installation mode) Yellow Stand-by (Operation mode) Green 1st row detection Blinking Red 2nd row detection Red 3rd, 4th or 5th row detection Orange Wrong dipswitch setting Red & Green blinking	· · · · · · · · · · · · · · · · · · ·			19	sec	1sec	
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2nd row detection Red 3rd, 4th or 5th row detection Orange Wrong dipswitch setting Red & Green blinking							
3rd, 4th or 5th row detection Orange Wrong dipswitch setting Red & Green blinking			ů				
Wrong dipswitch setting Red & Green blinking	2nd row detection				i i		
	,		Orange				
Signal saturation Slow Green blinking	Wrong dipswi	tch setting	Red & Green blir	nking			
	Signal saturation		Slow Green blinki	ng			

COMPLIED STANDARDS

EN 61496-3:2001 clause 4. 3. 5 and 5. 4. 7. 3

EN 16005-2012 EMC Directive 2004/108/EC

EN 12978+A1:2009 EN ISO 13849-1:2008

Machinery Directive 2006/42/EC EN ISO 13849-2:2008

Notified Body: TÜV SÜD Product Service GmbH, Daimlerstraße 40 60314 Frankfurt Germany



Emitting	area				[m(feet,inch)]
A	2.00 (6'6")	2.20 (7'2")	2.50 (8'2")	2.70 (8'10")	3.00 (9'10")
В	0.13 (5")	0.14 (6")	0.16 (6")	0.18 (7")	0.20 (8")
С	0.38 (1' 3")	0.42 (1' 5")	0.48 (1' 7")	0.52 (1' 8")	0.58 (1' 11")
D	0.74 (2' 5")	0.82 (2' 8")	0.93 (3' 1")	1.00 (3' 3")	1.10 (3' 7")
E	1.23 (4' 1")	1.35 (4' 5")	1.54 (5' 1")	1.66 (5' 5")	1.85 (6' 1")
F	1.74 (5' 9")	1.90 (6' 3")	2.17 (7' 1")	2.34 (7' 8")	2.60 (8' 6")
G	1.06 (3' 6")	1.33 (4' 4")	1.51 (4' 11")	1.63 (5' 4")	1.81 (5' 11")
Н	1.86 (6' 1")	2.05 (6' 9")	2.32 (7' 7")	2.51 (8' 3")	2.79 (9' 2")
l (*)	2.52 (8' 3")	2.78 (9' 2")	3.15 (10' 4")	3.40 (11' 2")	3.79 (12' 5")
Х	0.19 (8")	0.21 (8")	0.24 (9")	0.26 (10")	0.28 (11")

X is the distance between the 1st row and the mounting surface.

Detection area

To comply with EN 16005, make sure that the detection area is within the values in the chart below.

Α	2.00 (6'6")	2.20 (7'2")	Test conditions required by EN 16005			
С	0.23 (9")	0.24 (10")	Floor : Grey paper			
G	1.02 (3' 4")	1.10 (3' 7")	Detection object :			
I	2.41 (7' 11")	2.54 (8' 4")	EN 16005 CA reference body			
The values above are when the sensitivity is set to "Middle" and speed of detection object is 50mm / sec						

The values above are those of the detection area when tested referring to the test conditions of EN 16005.

(The emitting area is as shown in Emitting area above.) : When installed at higher than 2.35m(7'8"), EN 16005 requirements are fulfilled only within the area width "I" of 3m(9'10").

NOTE The actual detection area may become smaller depending on the ambient light, the color / material of the object or the floor as well as the entry speed of the object. The sensor may not be activated when the entering speed of the object or a person is slower than 50mm / sec. or faster than 1500mm / sec.

INSTALLATION

Heade

Sensor

- Affix the mounting template at the desired mounting position.
- (When setting the detection area close to the door, mount the sensor according to the chart below.) 2. Drill two mounting holes of ø3.4mm (ø1/8").
- 3. To pass the cable through the header, drill a wiring hole of ø8mm (ø5/16").
- 4. Remove the mounting template.



- H : Height from the floor to the bottom of the header
- Y : Distance between the bottom of the header and the sensor
- ${\sf X}$: Distance between the door and the mounting surface
- (The mounting height is "H + Y".)

Y						
^ <u><</u> X _ ^	Maximum mountin	g distance (Y)	J distance (Y)			
	XH	2.00 (6' 6")	2.30 (7' 6")	2.50 (8' 2")	2.80 (9' 2")	3.00 (9'10")
	0			No limit		
	0.05 (2")	0.20 (7")	0.20 (7")	0.20 (7")	0.20 (7")	0
H	0.10 (4")	0.20 (7")	0.20 (7")	0.20 (7")	0.20 (7")	0
Door	0.15 (6")	0.13 (5")	0.15 (5")	0.19 (7")	0.20 (7")	0
	0.20 (8")	-	0.12 (4")	0.14 (5")	0.15 (5")	0
Floor	0.25 (10")	-	-	0.11 (4")	0.12 (4")	0
	0.30 (12")	-	-	-	-	-
			0 1	e as described i re may be no d		<i>'</i>
		, can be dange	ious since ther	e may be no d	election alea a	arouna l

Risk of getting caught. the threshold. Install the sensor as low as possible on the header.

Wire the cable to the door controller as shown below.



OUTER DIMENSIONS AND PART NAMES

Sensor failure



Fast Green blinking

NOTE The specifications herein are subject to change without prior notice due to improvements.

NOTE Make sure to connect the cable correctly to the door controller before turning the power ON. When turning the power ON or after adjusting the settings, do not enter the detection area for more than 10 seconds in order to enable the presence detection. Do not touch the dipswitches before turning the power ON, otherwise an error occurs When changing the settings of dipswitch, see ADJUSTMENTS 3 Dipswitch settings.

Place the housing cover

If wiring is to be exposed, break the knockout.

	Do not use the sensor without the cover. When using the cable knockout, install the sensor indoors or use the rain-cover		
Danger of electric shock.	(Separately available) otherwise electric shock or breakdown of the sensor may occur.		





Special attention to the setting is required when the door is used often by the elderly or children. Please adjust the sensitivity and the presence detection timer according to your risk assessment.

3-2. Setting the presence detection timer

•	
e 1st and 2nd rows have the presence detection function.	
comply with EN 16005, set the timer to " 30sec." or more.	

The To



NOTE To enable the presence detection, do not enter the detection area for 10 seconds after setting the timer.

5rows

• •

3-3. Setting the frequency



60sec.

•

34

180sec.

•

34

OFF

Enable

• 10

 ∞ •

34

78

ON

9

Disable

10

30sec

• •

34

78

When using more than two sensors close to each other, set the different frequency for each sensor by dipswitches 5 and 6.

3-4.Setting the row adjustment

Set the depth rows with dipswitches 7 and 8.



NOTE When "2rows" are selected, the activation output is disabled.

3-5.Setting the immunity

Set dipswitch 9 to ON when the sensor operates by itself (Ghosting).

NOTE When dipswitch 9 is set to ON ,the actual detection area may become smaller.

3-6.Setting the self monitoring

When the door remains open and the LED indicator shows fast or slow green blinking, please refer to the TROUBLESHOOTING. If the door still remains open, set dipswitch 10 to "Disable".

NOTE To comply with EN 16005 dipswitch 10 must be set to "Enable".

	Green blinking		detection area. Or lower the sensitivity.(*) Or change the area depth angle for 1st to 3rd rows.
		The detection area overlaps with the door / header.	Adjust the detection area to "Deep" (Outside).
	Red & Green blinking	Wrong setting of dipswitch	 Set the function key to the "Setting mode". Change the dipswitch 16 setting (ON → OFF or OFF → ON → OFF). Set the function key back to "Operation mode".
Door remains closed.	Proper	Wrong wiring or connection failure	Check the wires and connector.
Proper operation	Slow Green blinking	Signal saturation (3rd, 4th or 5th row)	Remove highly reflecting objects from the detection area. Or lower the sensitivity.(*) Or change the area depth angle.

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ON

16

^r Before changing these settings, set the function key to the "Setting mode". When finished, set back to the "Operation mod

Entrematic Group AB

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