

VEX1000 Wiring diagram

EXcon+ automatic

EXcon+ automatik

Système de régulation EXcon+



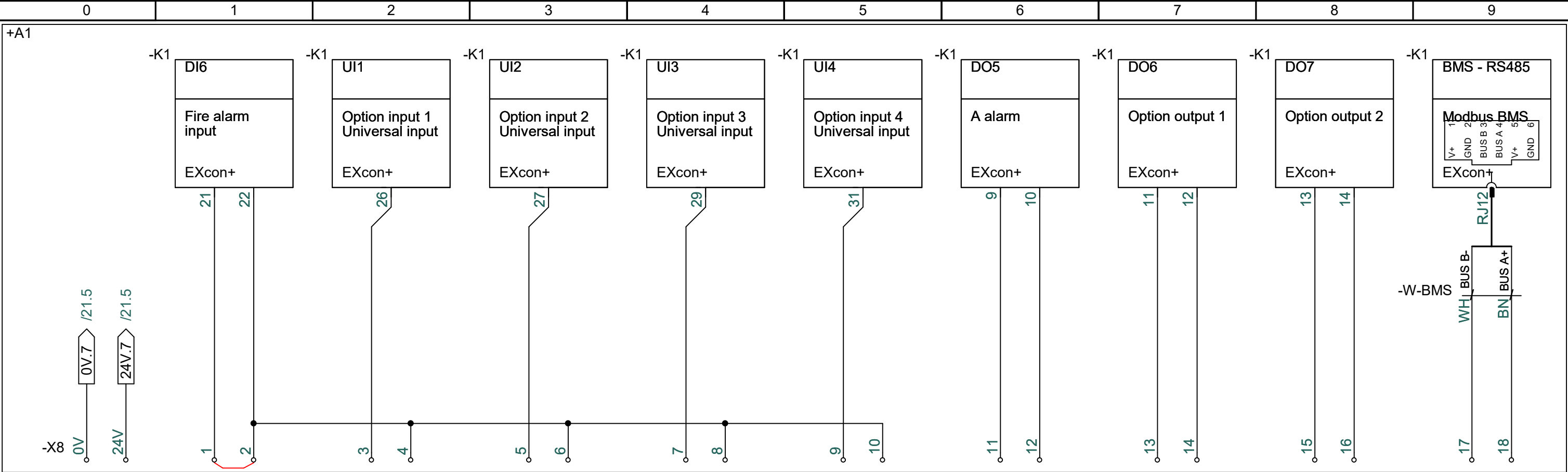
VEX1000 Accessories

3006851

 aldes EXHAUSTO		Project: VEX1000 Accessories	Start date: 31-10-2024	Constructor: DKTSA	Page: 1
			Revision date: 18-12-2024	Approved by: DKLEG	Previous page: 0
Drawing number: 3006851	Revision: A	Page Title: Frontpage	Replaces:	Scale: 1:1	Next page: 2
			EC no.:	Format: A3	Pages in total: 24

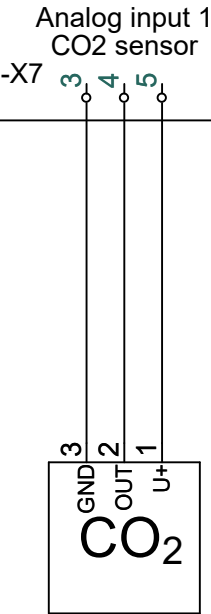
IO		Default setting	Comment	
Digital input 6		Fire alarm	Mandatory	
Universal input 1 - Option 1		External High Speed mode	-	
Universal input 2 - Option 2		External Medium Speed mode	Can change depending on the coil configuration	
Universal input 3 - Option 3		External Low Speed mode	Can change depending on the coil configuration	
Universal input 4 - Option 4		External resetting of alarms	Can change depending on the coil configuration	
Digital output 5		"A" alarm	Mandatory	
Digital output 6 - Option 1		User relay	-	
Digital output 7 - Option 2		Operating relay	-	
IO		Standard-Einstellung	Kommentar	
Digitaleingang 6		Feueralarm	Obligatorisch	
Universaleingang 1 - Option 1		Externer Hochgeschwindigkeitsmodus	-	
Universaleingang 2 - Option 2		Externer Mittlerer Geschwindigkeitsmodus	Kann je nach Registerkonfiguration geändert werden	
Universaleingang 3 - Option 3		Externer Niedriggeschwindigkeitsmodus	Kann je nach Registerkonfiguration geändert werden	
Universaleingang 4 - Option 4		Externes Zurücksetzen von Alarmen	Kann je nach Registerkonfiguration geändert werden	
Digitalausgang 5		"A" Alarm	Obligatorisch	
Digitalausgang 6 - Option 1		Benutzer-Relais	-	
Digitalausgang 7 - Option 2		Betriebsrelais	-	
IO		Réglage par défaut	Commentaire	
Entrée numérique 6		Alarme incendie	Obligatoire	
Entrée universelle 1 - Option 1		Mode haute vitesse externe	-	
Entrée universelle 2 - Option 2		Mode vitesse moyenne externe	Peut changer selon la configuration de la bobine	
Entrée universelle 3 - Option 3		Mode basse vitesse externe	Peut changer selon la configuration de la bobine	
Entrée universelle 4 - Option 4		Réinitialisation externe des alarmes	Peut changer selon la configuration de la bobine	
Sortie numérique 5		"A" alarme	Obligatoire	
Sortie numérique 6 - Option 1		Relais utilisateur	-	
Sortie numérique 7 - Option 2		Relais de fonctionnement	-	

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			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	2
Drawing number: 3006851	Revision: A	Page Title: I/O Settings - Customer connections	Replaces:		Scale:		Next page:	
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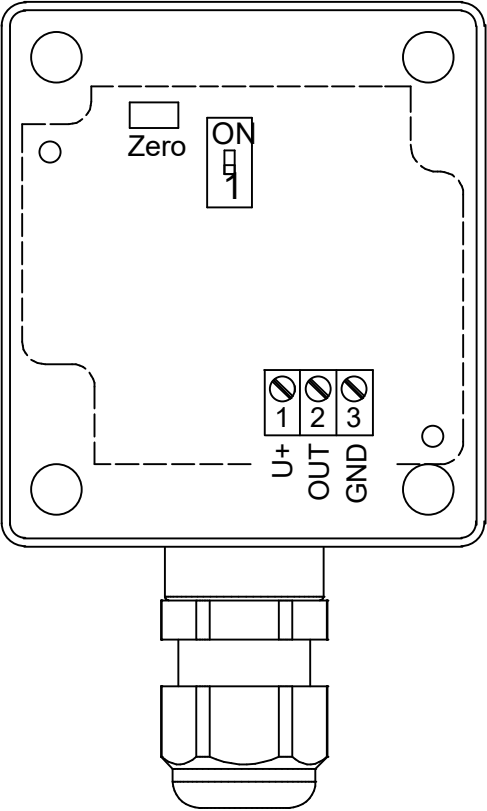


Type	Description	Signal type
KCO2	CO2 sensor 0-10V to duct mounting	0-10V
RCO2	CO2 sensor 0-10V for room installation	0-10V
RLQ	VOC air quality sensor 0-10V for room installation	0-10V
O-KRM	Smoke detector for duct mounting from Oppermann	Digital input
UG-5	Smoke detector for duct mounting from Calectro	Digital input
BT40-70	Fire thermostat 40-70°	Digital input
HYRK	Hygrostat for room installation	Digital input
S-KH-10U	Hygrostat for duct mounting	Digital input
PIR	PIR sensor motion detector	Digital input
Timerbutton	Timerbutton with LED indicator	Digital input & digital output
TTH-6040-O	External outdoor temperature sensor	Modbus A
TTH-6040-W	Temperature sensor for room installation	Modbus B
HMI-20T	2" HMI for room mounting with temperature sensor	Modbus A
VTH-6202	VOC/CO2 sensor for duct mounting	Modbus B
PTH4000	PTH-6202 pressure transmitter kit for Constant Pressure regulation	Modbus B

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									



	Terminal	3 GND	2 OUT	1 U+
Standard	-X7	:3	:4	:5

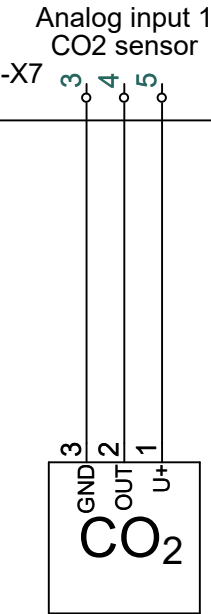


Only one CO₂/VOC sensor can be installed

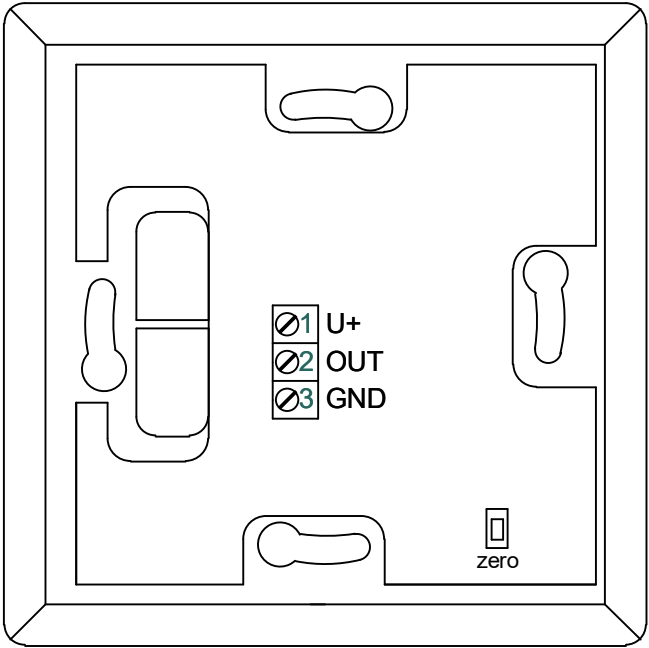
CO₂ sensor 0-10V for duct installation

aldes EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	10
			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	4
Drawing number: 3006851	Revision: A	Page Title: KCO2-SD	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									



	Terminal	3 GND	2 OUT	1 U+
Standard	-X7	:3	:4	:5

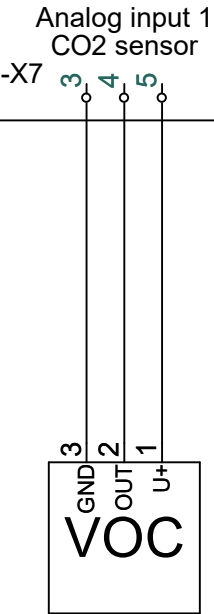


Only one CO2/VOC sensor can be installed

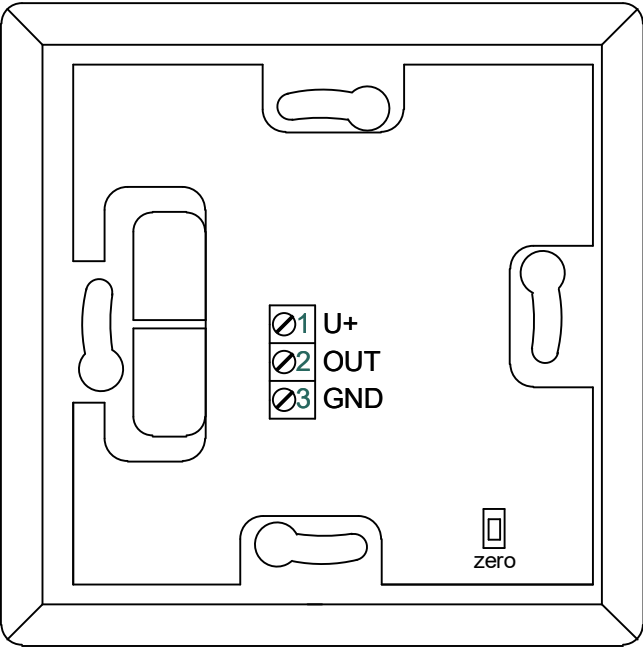
CO2 sensor 0-10V for room installation

aldes EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	11
			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	10
Drawing number: 3006851	Revision: A	Page Title: RCO2-SD-U	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									



	Terminal	3 GND	2 OUT	1 U+
Standard	-X7	:3	:4	:5

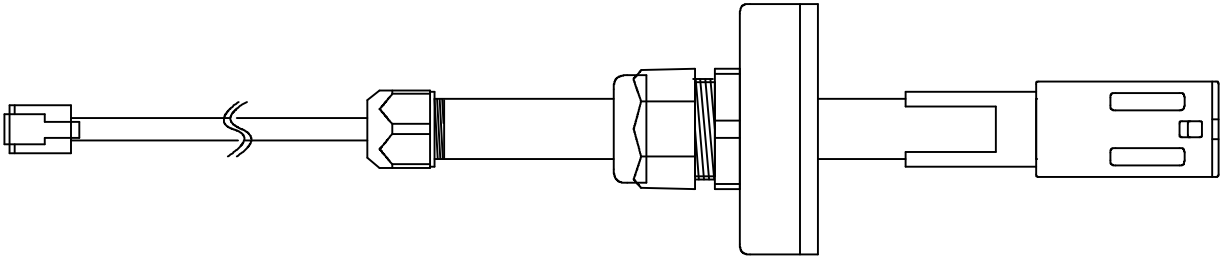
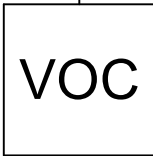
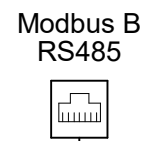


Only one CO2/VOC sensor can be installed

VOC air quality sensor 0-10V for room installation

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			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	11
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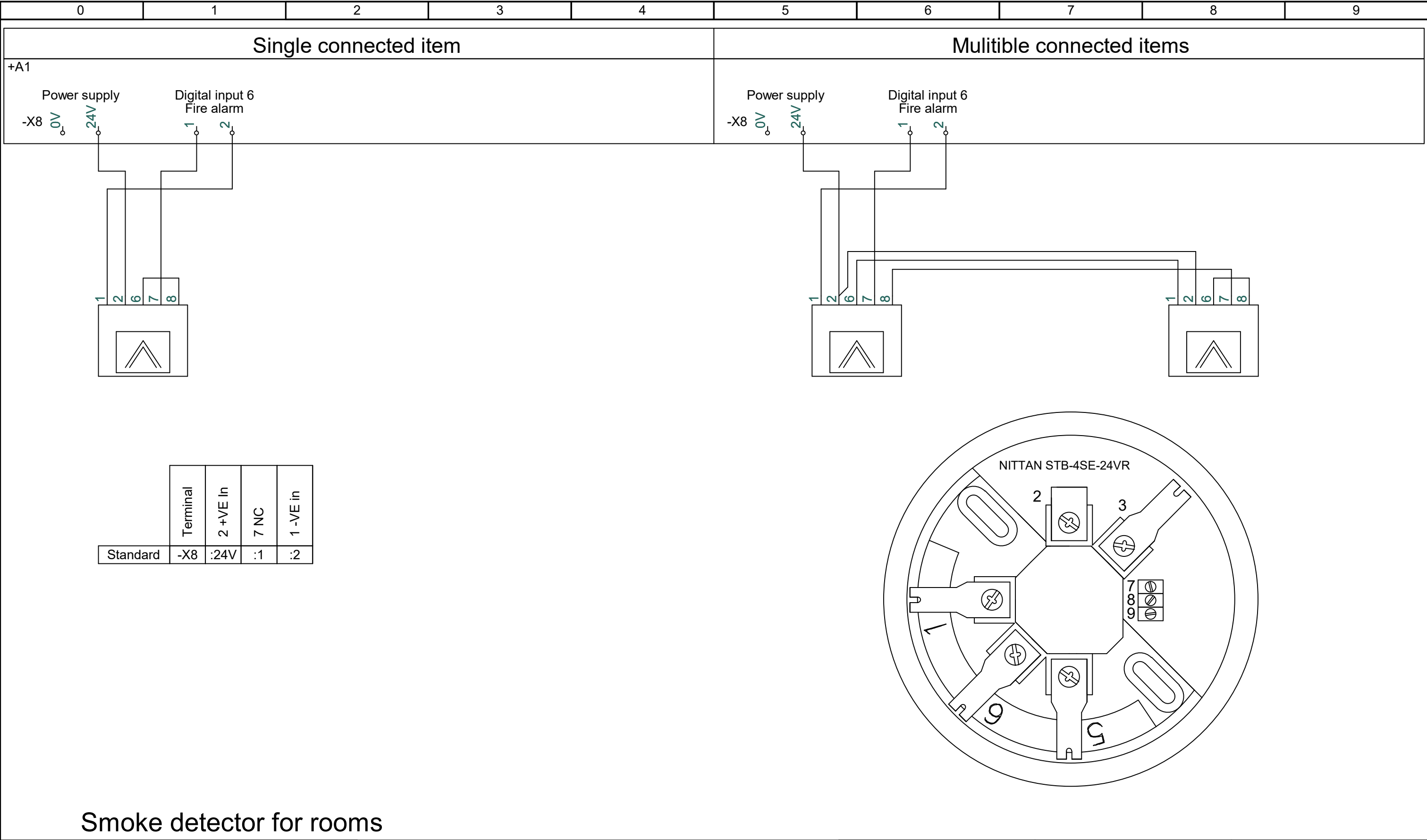
0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									



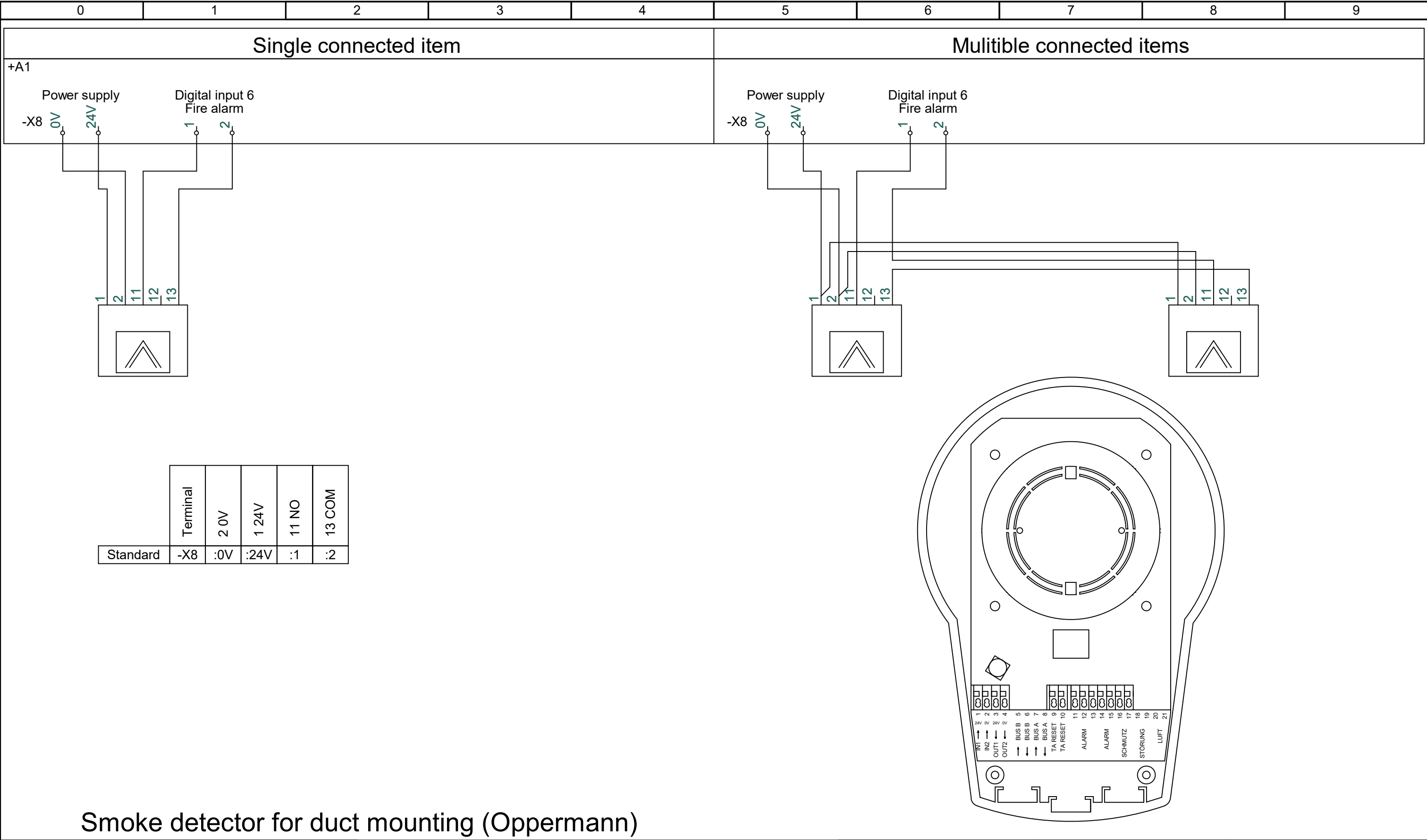
Only one CO2/VOC sensor can be installed

VOC/CO2 sensor for duct installation

 EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	13	
			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	12	
Drawing number: 3006851	Revision: A	Page Title: VTH-6202	Replaces:		Scale:	1:1	Next page:		14
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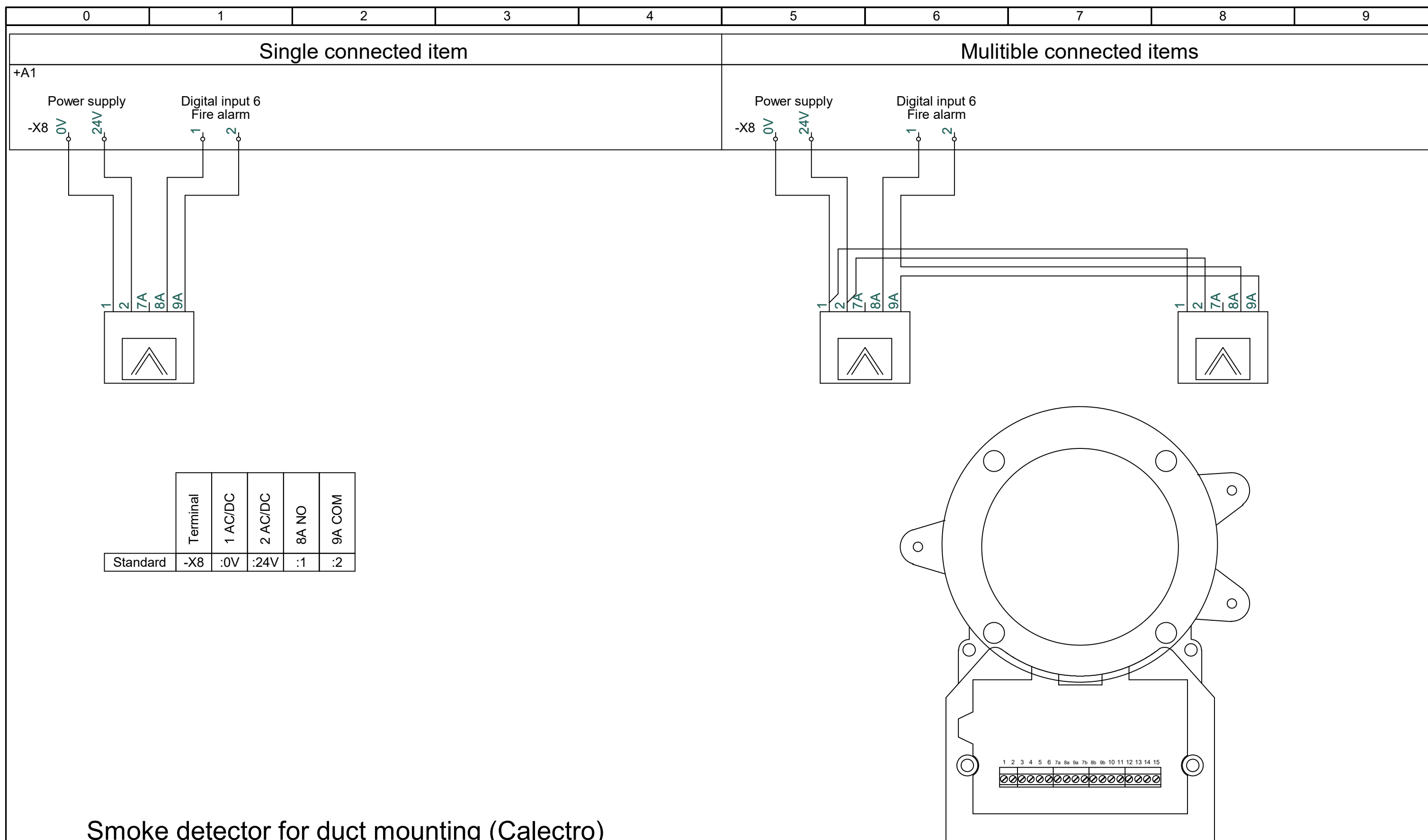
Smoke detector for rooms

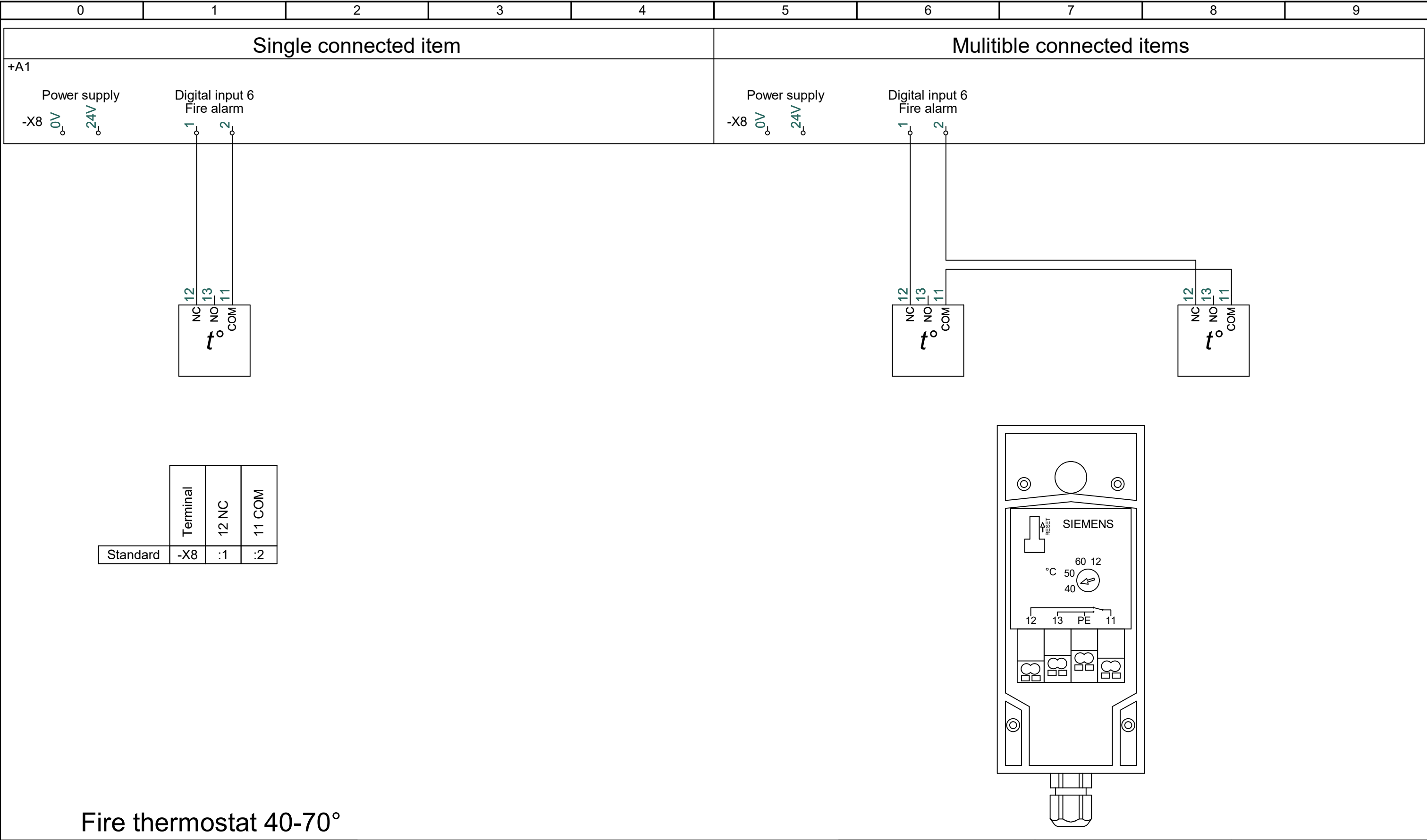


	Terminal	2 0V	1 24V	11 NO	13 COM
Standard	-X8	:0V	:24V	:1	:2

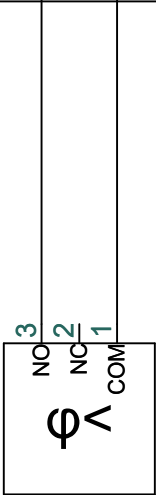
The diagram shows a smoke detector for duct mounting (Oppermann) with a terminal block and wiring connections. The terminal block is labeled with 1, 2, 11, 12, and 13. The wiring diagram shows the detector connected to a power supply (0V and 24V) and a digital input 6 (Fire alarm) via a terminal block labeled -X8. The detector is shown in a perspective view with a circular lens and a terminal block on the side. The terminal block labels are: 1, 2, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21. The labels are: 1, 2, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21. The labels are: 1, 2, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21.

Smoke detector for duct mounting (Oppermann)



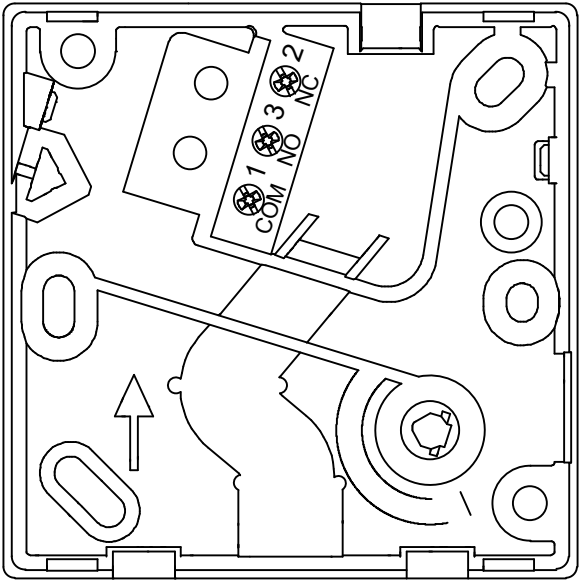


0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1 Power supply -X8 0V 24V Universal input 1 Option input 1 3 4 Universal input 2 Option input 2 5 6 Universal input 3 Option input 3 7 8 Universal input 4 Option input 4 9 10									



	Terminal	3 NO	1 COM
Standard	-X8	:3	:4
Option 1	-X8	:5	:6
Option 2	-X8	:7	:8
Option 3	-X8	:9	:10

UI1 (standard) is default High Speed mode.
Other modes can be selected on Option 1, 2 or 3,
if these are available.

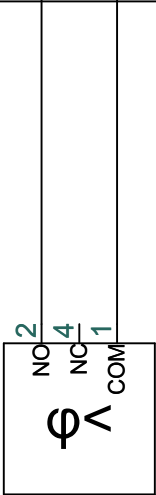


Only one hygrostat can be installed

Hygrostat for room installation

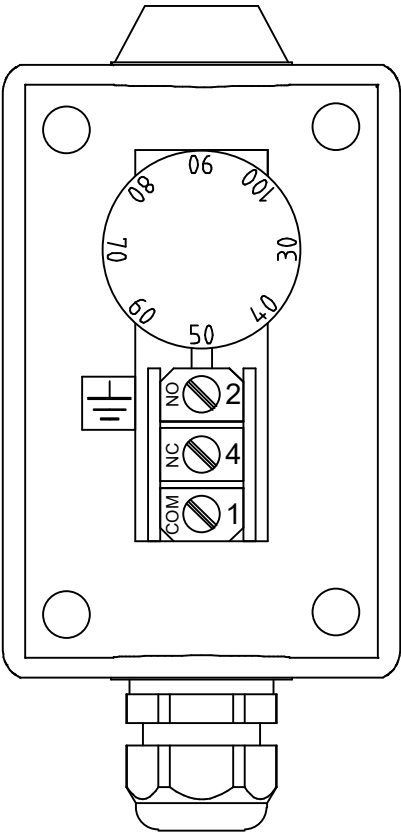
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Drawing number: 3006851	Revision: A	Page Title: HYRK	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1 Power supply -X8 0V 24V Universal input 1 Option input 1 3 4 Universal input 2 Option input 2 5 6 Universal input 3 Option input 3 7 8 Universal input 4 Option input 4 9 10									



	Terminal	2 NO	1 COM
Standard	-X8	:3	:4
Option 1	-X8	:5	:6
Option 2	-X8	:7	:8
Option 3	-X8	:9	:10

UI1 (standard) is default High Speed mode.
Other modes can be selected on Option 1, 2 or 3,
if these are available.

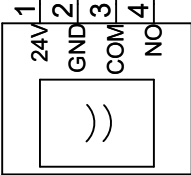
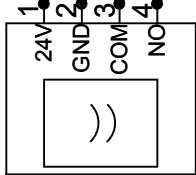
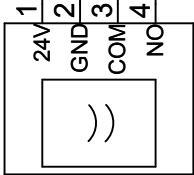


Only one hygrostat can be installed

Hygrostat for duct installation

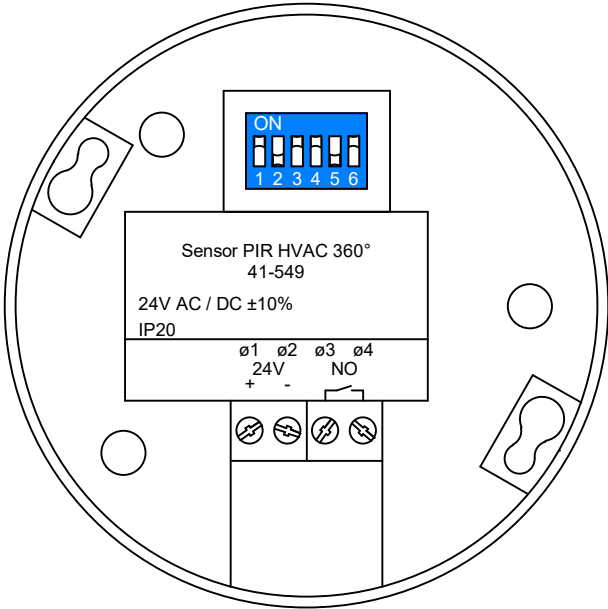
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Drawing number: 3006851	Revision: A	Page Title: S-KH-10U	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1 Power supply -X8 0V 24V Universal input 1 Option input 1 3 4 Universal input 2 Option input 2 5 6 Universal input 3 Option input 3 7 8 Universal input 4 Option input 4 9 10					Power supply -X8 0V 24V Universal input 1 Option input 1 3 4 Universal input 2 Option input 2 5 6 Universal input 3 Option input 3 7 8 Universal input 4 Option input 4 9 10				



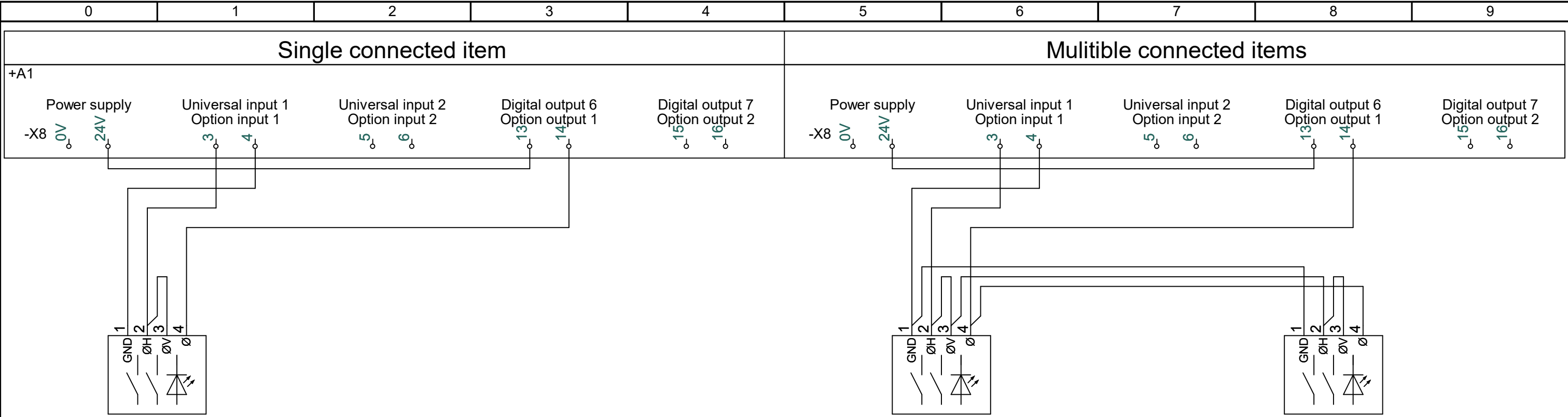
	Terminal	2 GND	1 24V	3 COM	4 NO
Standard	-X8	:0V	:24V	:3	:4
Option 1	-X8	:0V	:24V	:5	:6
Option 2	-X8	:0V	:24V	:7	:8
Option 3	-X8	:0V	:24V	:9	:10

UI1 (standard) is default High Speed mode.
Other modes can be selected on Option 1, 2 or 3,
if these are available.



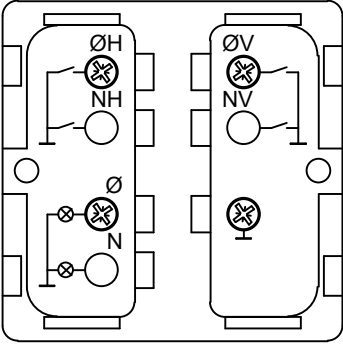
PIR motion detector

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			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	19
Drawing number: 3006851	Revision: A	Page Title: PIR	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	
					1:1		21	
					A3		24	



	Terminal				
	-X8	:3	:4	:13	:14
Standard		2 ØH	1 GND	-X8:24V	4 Ø

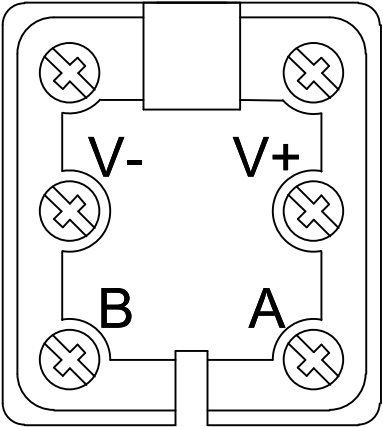
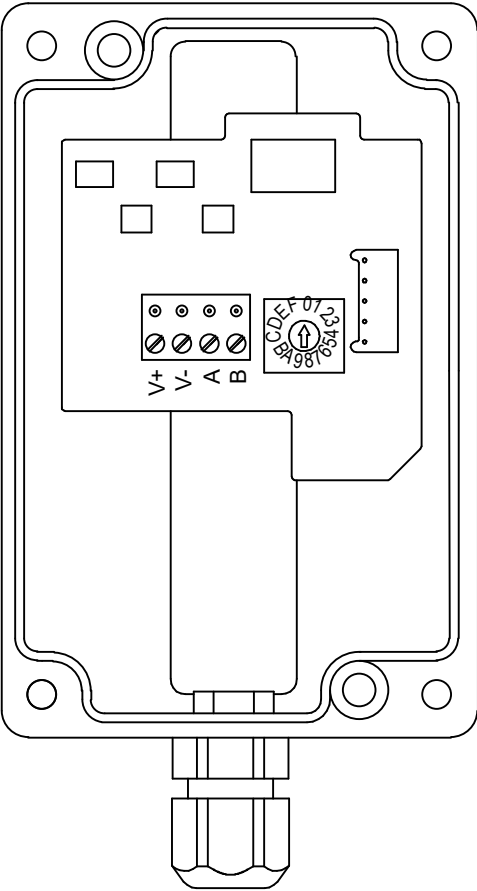
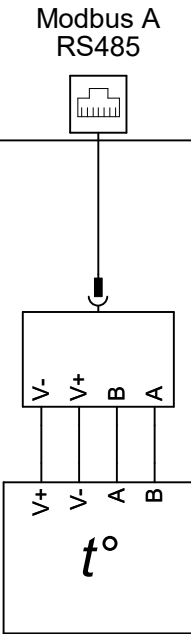
Digital output 6 must be configured as “User relay” and set to “Follow High Speed”.



Timer button with LED indicator

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Drawing number: 3006851	Revision: A	Page Title: TIMERBUTTON3	Replaces:		Scale:	1:1	Next page:	22
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0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									

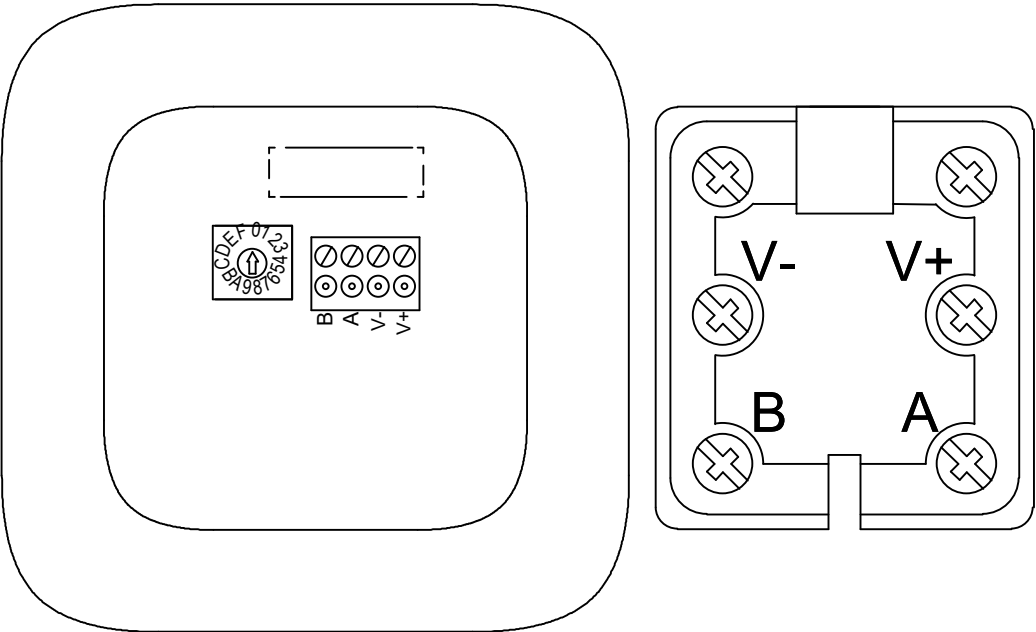
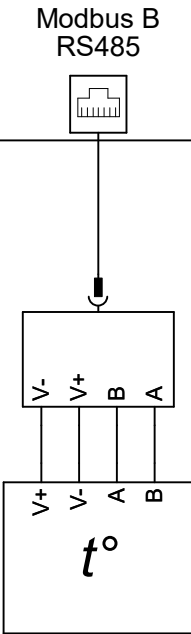


Only one TTH-6040-O can be installed
Can not be installed together with HMI-20T

External outdoor temperature sensor

 EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	22
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Drawing number: 3006851	Revision: A	Page Title: TTH-6040-O	Replaces:		Scale:		Next page:	
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0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									

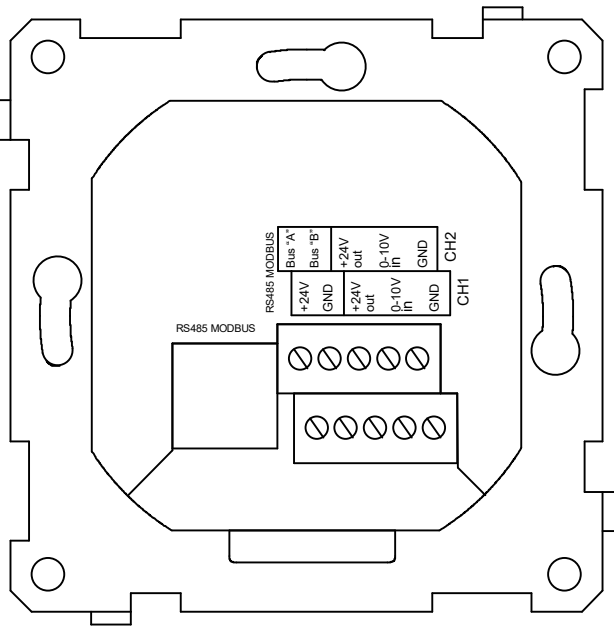
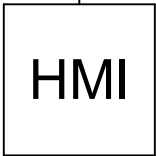
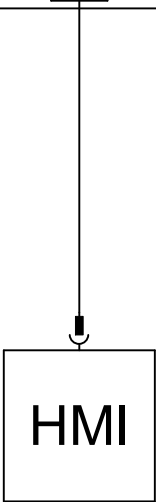
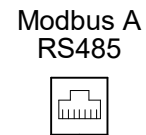


Only one TTH-6040-W can be installed

Room temperature sensor

aldes EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	23
			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	22
Drawing number: 3006851	Revision: A	Page Title: TTH-6040-W	Replaces:		Scale:		Next page:	
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0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									



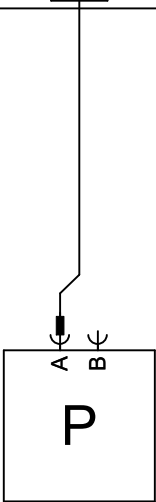
Only one HMI-20T can be installed
Can not be installed together with TTH-6040-O

2” HMI for room mounting with temperature sensor

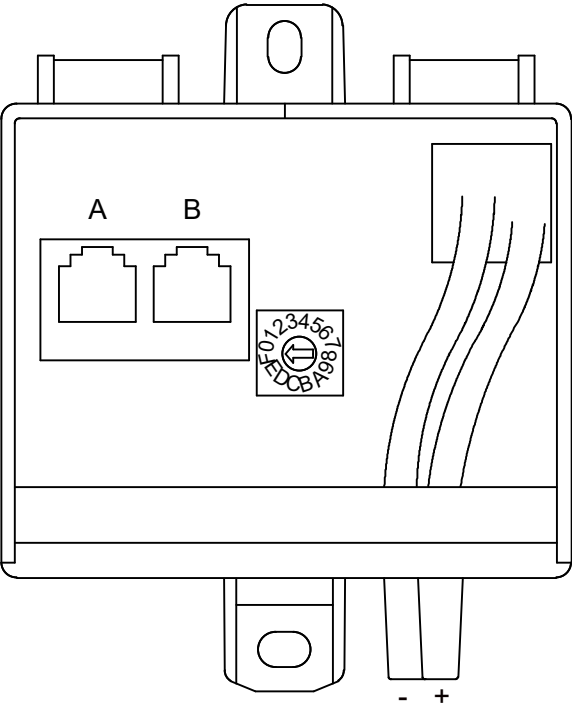
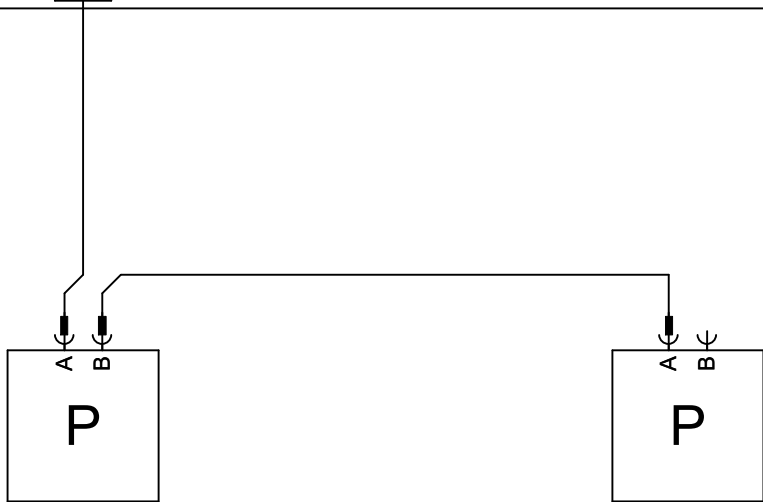
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Drawing number: 3006851	Revision: A	Page Title: HMI-20T	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	

0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1									

Modbus B
RS485



Modbus B
RS485



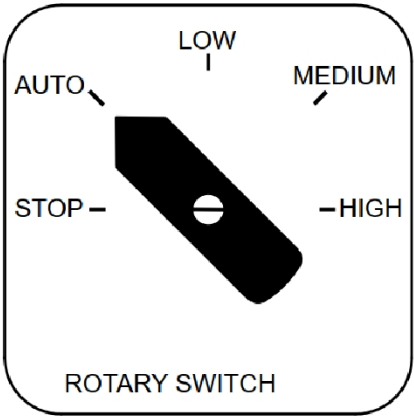
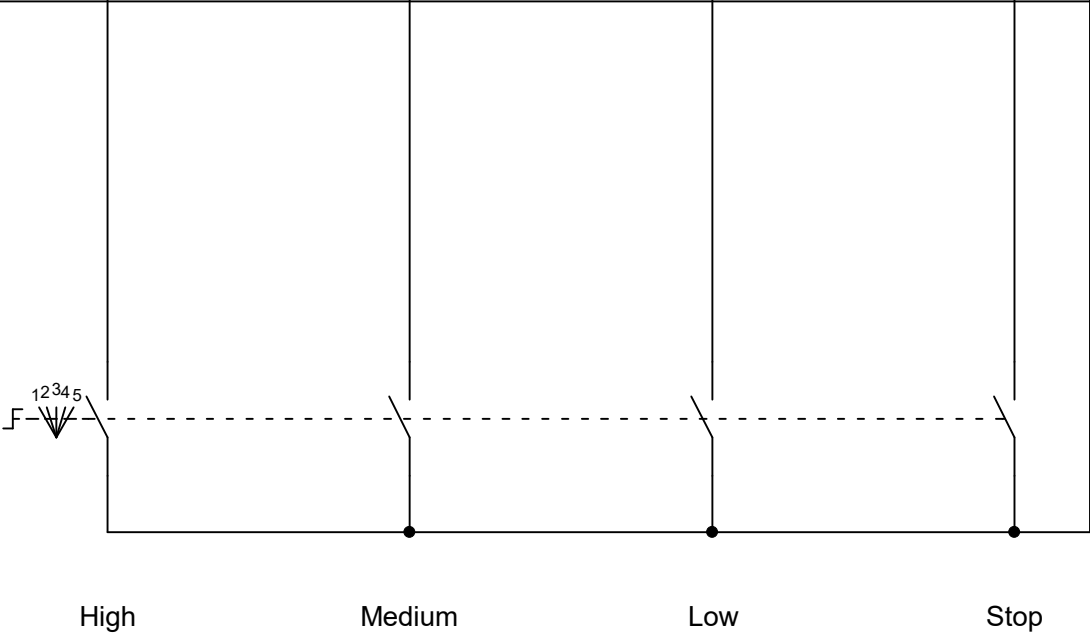
Maximum two PTH4000 can be installed

PTH-6202 pressure transmitter kit for Constant Pressure regulation

aldes EXHAUSTO		Project: VEX1000 Accessories	Start date:	31-10-2024	Constructor:	DKTSA	Page:	25
			Revision date:	18-12-2024	Approved by:	DKLEG	Previous page:	24
Drawing number: 3006851	Revision: A	Page Title: PTH4000	Replaces:		Scale:		Next page:	
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0	1	2	3	4	5	6	7	8	9	
Single connected item					Multible connected items					
+A1 Power supply -X80V24V Universal input 1 Option input 1 34 Universal input 2 Option input 2 56 Universal input 3 Option input 3 78 Universal input 4 Option input 4 910										
t° CW supply water temperature t° CW return water temperature t° HW supply water temperature										
Optional temperature sensors for water coils										
aldes EXHAUSTO			Project: VEX1000 Accessories			Start date: 31-10-2024		Constructor: DKTSA		Page: 26
						Revision date: 18-12-2024		Approved by: DKLEG		Previous page: 25
Drawing number: 3006851		Revision: A		Page Title: PT1000		Replaces:		Scale: 1:1		Next page: 27
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0	1	2	3	4	5	6	7	8	9
Single connected item					Multible connected items				
+A1 Power supply -X80V24V Universal input 1 Option input 1 34 Universal input 2 Option input 2 56 Universal input 3 Option input 3 78 Universal input 4 Option input 4 910									



The use of a 5-step switch precludes the connection of other I/O-based accessories to universal inputs 1-4. The 5-step switch is a 3rd-party product and is not supplied by EXHAUSTO.

External start switch

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Drawing number: 3006851	Revision: A	Page Title: 5-step switch	Replaces:		Scale:		Next page:	
			EC no.:		Format:		Pages in total:	
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