



Zone 2 / Division 2 keyboard with optical trackball mouse

EXTA3-* -K8-*

- IP66 (front plate)
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in hazardous areas, Class I/Div. 2, and Class II/Div. 2
- USB interface
- Nonincendive Division 2 / Zone 2 barrier required
- Panel mount or stainless steel housed keyboard
- International keyboard layouts

Zone 2 / Division 2 keyboard with optical trackball mouse



Function

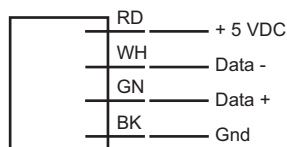
The EXTA3-* -K*-* is a non-incendive keyboard with USB interface. The keyboard is designed for panel mounting or for installation in a desktop housing.

Pointing devices can be configured as part of the model nomenclature:

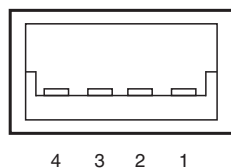
- K1 No pointing device
- K3 Mechanical trackball
- K4 Capacitive touchpad
- K6 Joystick
- K8 Sealed optical trackball
- K9 Glove friendly resistive touchpad

Connection

Cable ends

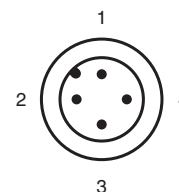


Type A USB



Pin	Description
1	+ 5 VDC
2	Data -
3	Data +
4	Gnd

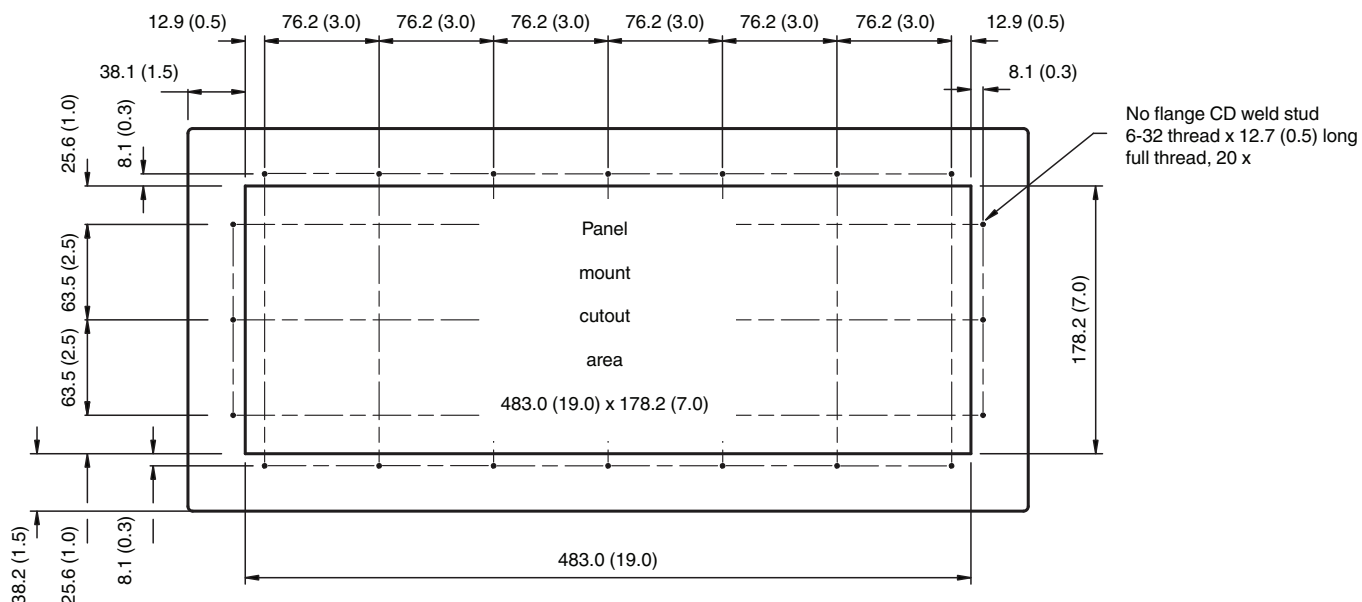
4-pin, M12



Pin	Description
1	+ 5 VDC
2	Data -
3	Data +
4	Gnd

Dimensions

Panel mount dimensions



Technical Data

General specifications

Type	Keyboard with trackball
Suitable components	SK-PC-D2-UU1-10-HS

Supply

Rated voltage	U_r	Ex i, via data line
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Indicators/operating means

Keyboard	105 entry keys Keyboard layout: US international (further keyboard layouts on demand)
Trackball	
Diameter	50 mm
Material	Phenolic, polyester, epoxy resin (grey)
Driver	Microsoft Mouse @ , USB

Interface

Interface type	USB
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Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Explosion protection	
Directive 2014/34/EU	EN 60079-0:2012 + A11:2013, EN 60079-11:2012


Conformity

Degree of protection	IP66 (front plate) Type 4X
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Technical Data

Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 70 °C (-4 ... 158 °F)
Relative humidity	max. 85 % , non-condensing (48 h endurance test)
Mechanical specifications	
Material	anodized aluminum , Polyester foil
Mass	1.2 kg
Dimensions	Desktop mount: 559.3 mm x 254.6 mm x 44.5 mm (22.02" x 10.02" x 1.75") Panel mount: 491.4 mm x 186.8 mm x 45 mm (19.35" x 7.35" x 1.77")
Cut out dimensions	483 mm x 178.2 mm
Cable length	1.8 m
Note	The nonincendive barrier, SK-PC-D2-UU1-10-HS, is required when using this product.
Data for application in connection with hazardous areas	
Certificate	PF II CERT 1918X
Marking	Ⓢ II 3GEx ic IIC T4 Gc Ⓢ II 3D EX ic IIB T135°C Dc
Input	
Voltage	U_o 5.4 V DC
Current	I_i 240 mA
Internal capacitance	C_i 24 μ F
Internal inductance	L_i negligible
International approvals	
UL approval	cULus (E190294)
Approved for	Class I, Division 2, Groups A, B, C, D, T4 Class II, Division 2, F,G

Accessories

	SK-PC-D2-UU1-10-HS	Div. 2 / Zone 2 Ex-rated barrier
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Chemical resistance of keyboard foil

The keyboard foil is manufactured from a biaxially aligned polyester-based material and therefore has a greater resistance to solvents. The foil is stronger and more durable than other standard foils used on keyboards and front panels, such as polycarbonate and PVC.

The keyboard foil is resistant against the following substances: (Test method: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100):
Alcohols	Staphylococcus aureus (MRSA)
Dilute acids	Escherichia coli 0157
Dilute alkalis	Listeria monocytogenes
Esters	Pseudomonas aeruginosa
Hydrocarbons	Salmonella enteritidis
Ketones	Bacillus cereus
Household cleaning agents	Streptococcus faecalis
	Klebsiella pneumoniae
	Aspergillus niger
	Penicillium purpurogenum
	Phoma violacea
	Saccharmyces cerevisiae

Type code

E X T A 3 - D 2 - N 3 - K 4 - U S - U - 0 2 - C F - Z - 1 0 - N

Options
N No option

Revision
10 Release 1.0

Mounting versions
C Standard housing
R Mounting version prepared for 48mm tubes 'mounting concepts'
Z No mounting adapter necessary

Connector type
CF Cable ends with crimped ferrules
UA 2 x USB type A male connectors
M4 4-pin, M12 male connector

Cable length
02 1.8 m keyboard cable

Interface
U 2 x USB

Keyboard layout
US US-International keyboard layout
DE German keyboard layout
FR French keyboard layout

Keyboard + mouse type
K1 Foil keyboard without mouse
K3 Foil keyboard with mechanical trackball (A1 and GP only)
K4 Foil keyboard with capacitive touchpad mouse
K6 Foil keyboard with joystick mouse (not suitable for D4)
K8 Foil keyboard with optical trackball mouse
K9 Foil keyboard with resistive touchpad mouse

Housing
F Housing version with different mount options (see 'Mounting options' section)
N3 No housing, flush mount type
T3 Desktop housing for EXTA3

Ex-Protection
A1 ATEX II 3GD
D2 Class I, Div 2 ABCD
D4 Class I, Div 2 and Class II, Div 2, ABCDFG
GP Industrial Non-Ex version, General purpose

EXTA3 Short travel foil keyboard Non-Ex with integrated mouse, flush mount
EXTA3 Short travel foil keyboard with integrated mouse, flush mount

Release date: 2021-02-04 Date of issue: 2021-02-04 Filename: t158486