

Ex i keyboard with optical trackball

EXTA4-*-K8*

- Degree of protection: IP 65
- Stainless steel housing
- National layout variants available for US, GER and FR
- PC-compatible-keyboard with 105 short stroke keys
- Designed for use in Zone 1/21 and Zone 2/22 hazardous areas
- USB or PS/2 interface with USB cable
- UL listed for USA and Canada, Class I, Div. 2 (UL HazLoc Equipment) or Class I, II, III, Div. 2 (UL Hazloc Component)

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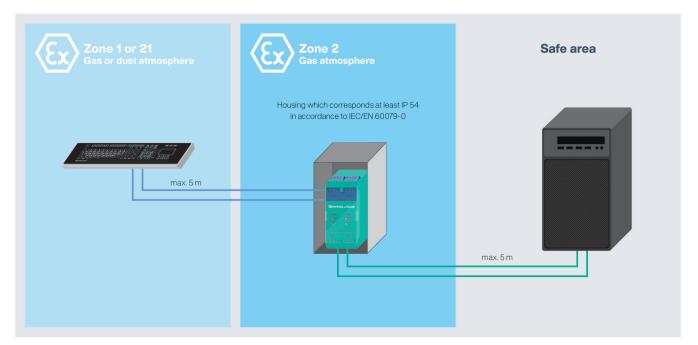
Function

EXTA4-* is an intrinsically safe keyboard with touchpad (EXTA4-*-K4*), joystick (EXTA4-*-K6*) or optical trackball (EXTA4-*-K8*). The interfaces of mouse and keyboard are separated IS-Circuits. Both circuits are lead trough in one connecting cable (connecting cable is included in delivery).

The keyboards are designed for panel mounting or for installation in a housing. The EXTA4-* is designed as accessory for the Pepperl+Fuchs Workstations VisuNet GXP and VisuNet FLX but can be used as stand-alone keyboard in combination with the available barriers as well.

Function Principle

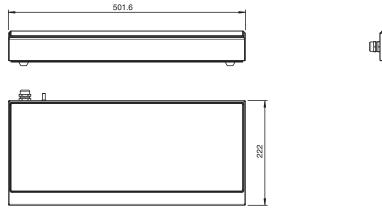
Sample Stand-alone Application for Keyboards (Refer to the manual for further samples.)





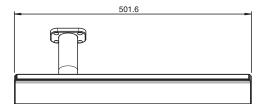
Dimensions

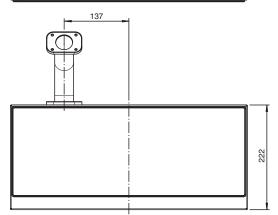
Desktop housing

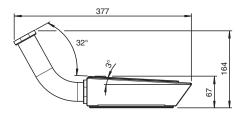




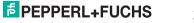
Standard housing with mounting options - sample VisuNet GXP One-Arm Installation





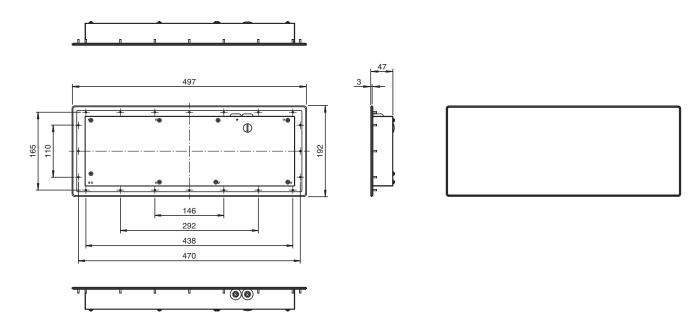


Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Dimensions

Panel Mounting



Technical Data

General specifications				
Туре		Keyboard with optical trackball		
Suitable components		SK-PC-Z1D1-UU1-10-HS and SK-PC-D2-UU1-10-HS		
Supply				
Rated voltage	Ur	Ex i, via data line		
Indicators/operating means				
Keyboard		105 short stroke keys Keyboard layout: US international, German, French		
Trackball				
Diameter		50 mm		
Material		Phenolic resin (black)		
Driver		Microsoft Mouse ®, USB		
Interface				
Interface type		USB		
Directive conformity				
Electromagnetic compatibility				
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) EN 61000-6-4:2007+A1:2011		
RoHS				
Directive 2011/65/EU (RoHS)		EN 50581:2012-09		
Conformity				
Degree of protection		IP65 in full operation (dynamic)		
Ambient conditions				
Ambient temperature		0 50 °C (32 122 °F)		
Storage temperature		-20 70 °C (-4 158 °F)		
Relative humidity		max. 85 % , non-condensing		
Mechanical specifications				
Material		anodized aluminum , Polyester foil		
Mass		1.2 kg		
Dimensions		502 mm x 222 mm x 66 mm		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical Data					
Cut out dimensions	450 mm x 152 mm				
Cable length	5 m / 1.8 m / 1 m				
Data for application in connection with haza	rdous areas				
EU-type examination certificate	Zone 1/21 BVS 07 ATEX E 163 X				
	Zone 2/22 BVS 21 ATEX E 009 X				
Marking	Zone 1/21 li 2G Ex ib IIC T4 Gb li 2D Ex ib IIIB T135°C Db				
	Zone 2/22 © II 3G Ex ic IIC T4 Gc © II 3D Ex ic IIIB T135°C Dc				
Directive conformity					
Directive 2014/34/EU	EN IEC 60079-0:2018 EN 60079-11:2012				
International approvals					
UL approval	in preparation				
IECEx approval					
IECEx certificate	Zone 1/21 IECEx BVS 08.0022X				
	Zone 2/22 IECEx BVS 08.0022X				
IECEx marking	Zone 1/21 Ex ib IIC T4 Gb Ex ib IIIB T135°C Db				
	Zone 2/22 Ex ic IIC T4 Gc Ex ic IIIB T135°C Dc				

Type Code

EXTA4-*

EXTA4-	(1)-	(2)-	K(3)	(4)-	U(5)	(6)-	(7)-	(8)
lodel								
EXTA4-	Short travel foil key	/board for use	in explosion hazar	dous environm	nents - standard (option		
			•			•		
(1)-	Ex Protection							
N-	Industrial, general		ex)					
J-	ATEX & IECEx Zor							
<u>_</u> -	ATEX & IECEx Zor	ne 2/22						
(2)-	Housings							
NN-	No housing, panel	mountina						
F1-	Standard housing		options					
T1-	Desktop housing							
K(3)	Mouse Options							
K4	Capacitive Touchp	ad						
K6	Joystick							
K8	Optical Trackball							
(4)-	Keyboard Layout	S						
US0-	US-International La		ΓY)					
DE0-	German Layout (Q	WERTZ)	,					
FR0-	French Layout (AZERTY)							
xxx-	Other languages o	n request [plac	e holder option fo	r other languag	ges]			
U(5)	Cable Length							
U10	1 m cable length (p	proformed for G	VP and ELV) [only	for housing on	tions "NN" and "	E1" not for "T1"]		
U18	•			<u> </u>	NIONS ININ ANU			
U50	 1.8 m cable length (preferred option for AG1 housing) 5 m cable length (preferred for Desktop housing option) [only for housing options "NN" and "T1", not for "F1"] 							

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Type Code								
(6)-	Connectors							
CF-	Cable ends with cr	rimped ferrules (e.g. to connect t	o VisuNet GXP o	or Barrier) - stand	dard option		
UA-	2x USB type A ma	le connectors (e	e.g. to connect to	VisuNet FLX) -	standard option			
(7)-	Mounting Options							
NP-	Panel mounting [or	nly for housing c	ption "NN"]					
T1-	No mounting option - Desktop housing [only for housing options "T1" AND cable length "U18" or "U50"]							
G1-	GXP One-Arm installation to AG-XX00 - standard option [only for housing option "F1" AND cable length "U10" AND connector "CF"]							
G2-	GXP Double-Arm installation to AG1 - standard option [only for housing option "F1" AND cable length "U18" AND connector "CF"]							
H1-	Hinged version for VisuNet FLX - standard option [only for housing option "F1" AND cable length "U10" AND connector "UA"]							
C1-	Cabinet / horizontal installation on vertical housing (wall mounting) - standard option [only for housing option "F1" AND cable length "U18" AND connector "UA"]							
(8)	Options							
NO	Standard, no options - standard option [standard option & preferred]							
UV	UV-resistant front foil for outdoor use							
Example:								
EXTA4-	N-	NN-	K4	US0-	U10	CF-	NP-	N0

Access	ories	
ALLESS	Unes	

SK-PC-Z1D1-UU1-10-HS	USB intrinsic safety barrier for stand-alone keyboard applications
SK-PC-D2-UU1-10-HS	Div. 2 / Zone 2 Ex-rated barrier

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

Additional Information

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 methode: DIN42115)	The foil passed the anti microbial effectiveness tested with: (Test method: AATCC Test method 100)
Alcohols	Staphyloccus 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

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