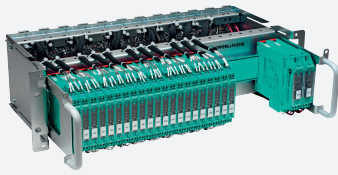


Subrack

K-RACK.1.**.*.*.WW.01-Y*****



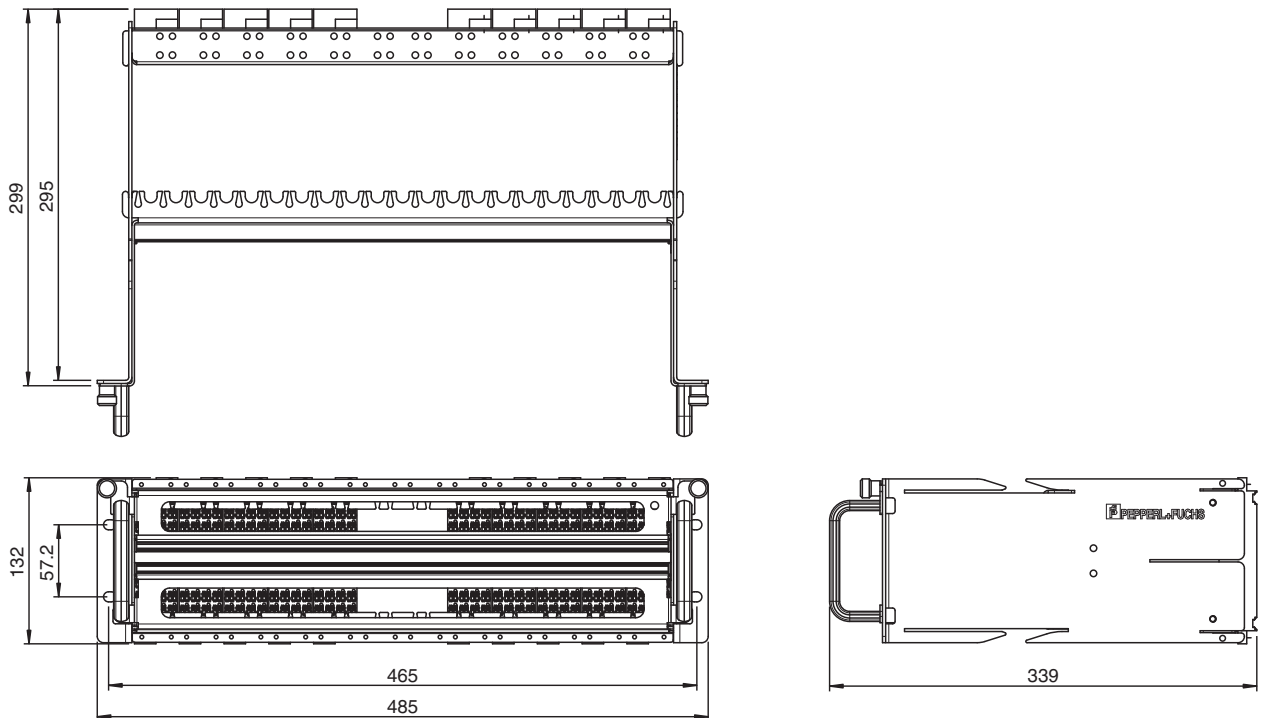
- Subrack for K-System
- Replacement for subrack of the E-System
- Max. 33 slots for isolators
- Long design (300 mm mounting depth)
- Connection via marshalling patchboards
- Partial and combined assembly possible
- Complete wiring according to customer requirements
- Allows to retain cable routing in the switch cabinet
- No structural changes on the switch cabinet required



Function

The device is a subrack for K-System isolators, which replaces the E-card subrack. A maximum of 33 isolators can be mounted on the device. The isolator modules are mounted on the DIN mounting rail. The isolators can be supplied via marshalling patchboards or via the power rail. Faults can be forwarded to the control via the power rail for evaluation. The signals are transmitted to the field and control side via marshalling patches.

Dimensions



Technical Data

Slots

Supply	max. 2 , see section application
Isolators	max. 33 , see section application

Supply

Release date: 2022-01-18 Date of issue: 2022-01-18 Filename: t200645_eng.pdf

Technical Data

Connection	isolator power supply via marshalling patchboards or Power Rail
Nominal voltage	24 V DC , in consideration of rated voltage of used isolators
Fusing	max. 4 A , in consideration of rated voltage of used isolators
Redundancy	redundancy possible, depends on the used power feed module
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61439-1:2011 (J.9.4.2 b) , EN 61439-2:2011
RoHS	
Directive 2011/65/EU (RoHS)	EN IEC 63000:2018
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Connection	
Field side	marshalling patchboards
Control side	marshalling patchboards
Supply	marshalling patchboards or Power Rail
Core cross section	field side: max. 2.5 mm ² control side: max. 2.5 mm ² internal signal wiring: 0.25 mm ² supply: max. 1.5 mm ²
Material	
Housing	galvanized steel
Surface	galvanized , vibratory finishing
Mass	approx. 4 kg , without modules
Dimensions	485 mm x 132 mm x 339 mm (W x H x D)
Mounting	slotted hole 8 x 10 mm
Grounding	via front fastening M8 , via lateral fastening on both sides M5
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

Application

Isolators and power supply modules can be combined as required on the subrack. A partial assembly with isolators and dummy devices as placeholders is possible.

Observe the following conditions during planning:

- A maximum length of 420 mm is available for mounting on the DIN mountig rail.
- A maximum of 320 connections are available in the marshalling patchboards.
- If you mount signal conditioners and isolated barriers together, observe the necessary separation distances between the signal loops.

Examples of combinations

Isolator width (mm)	Universal Power Rail mounting power supply with 1 power feed module	Universal Power Rail mounting redundant power supply with 2 power feed modules	DIN mounting rail mounting without power feed module
12.5	32	30	33
20	20	19	21
40	10	9	10

Mounting

Keep a distance of 50 mm above and below each subrack. This distance is required

- to maintain the necessary bending radii for wiring,
- to maintain the necessary separation distances for the combined mounting of signal conditioners and isolators.