



Supply module for IDM-Z1-*

SK-IDM-Z1-x60-*

- AC and DC power supplies for IDM-Z1-* handheld readers and base station
- Enable operation in Zone 1/21
- Sturdy aluminum housing

Power supply for IDM-Z1-* handheld readers and base station



Function

SK-IDM-Z1-* supply modules provide intrinsically safe power to IDM-Z1-* 1-D and 2-D handheld readers, as well as IDM-Z1-x6x-B-J1* Bluetooth® base charging stations. AC and DC versions are available with several interface options. SK-IDM-Z1-* supply modules enable operation of handheld scanners in Zone 1/21.

Technical Data

General specifications	
Type	Supply Module
Supply	
Power consumption	DC: 7.1 W AC: 16 W , 50 ... 60 Hz
Electrical specifications	
Operating voltage	U _B DC: 24 V DC typical , 18 ... 30 V DC voltage range AC: 230 V AC typical , 90 ... 253 V AC voltage range
Interface	
Interface type	depends on model field side (Ex e) : RS-232 / RS-422 or USB Connection side handheld readers and base station : RS-232 or USB
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005 + AC:2005 , EN 61000-6-4:2007 + A1:2011
Ambient conditions	
Operating temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 60 °C (-40 ... 140 °F)
Relative humidity	95 % non-condensing
Mechanical specifications	
Degree of protection	IP64
Cable	power supply cable: 1.5 ... 2.5 mm ² (24 AWG ... 14 AWG), 3 pin data cable: 0.2 ... 2.5 m ² (24 AWG ... 14 AWG), 3 pin or 4 pin (depending on the model)
Length	L max. 15 m or 5 m, depending on the model
Mass	approx. 3.1 kg
Dimensions	140 mm x 250 mm x 56 mm (W x H x D)
Data for application in connection with hazardous areas	
EU-type examination certificate	IBExU18ATEX1051 IECEx IBE 18.0010
Marking	Ⓢ II 2G Ex eb q [ib IIC/IIB] IIC T4 Gb Ⓢ II 2D Ex tb [ib] IIIC T135 °C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2018 EN 60079-11:2012 IEC 60079-31:2014 IEC 60079-5:2015 IEC 60079-7:2015

Release date: 2025-03-12 Date of issue: 2025-03-12 Filename: t193107_eng.pdf

Technical Data

General information

Supplementary information

Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Product Versions

Ordering Information

Model number	Description
SK-IDM-Z1-160-BD-1D-J1-DC-S-N	DC supply module for IDM-Z1-16*-D-1D-J1* corded 1-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • RS-232 / RS-422 field-side interface (Ex e) • RS-232 reader-side interface (Ex i)
SK-IDM-Z1-160-BD-1D-J1-DC-U-N	DC supply module for IDM-Z1-16*-D-1D-J1* corded 1-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • USB field-side (Ex e) and reader-side (Ex i) interfaces
SK-IDM-Z1-160-BD-1D-J1-AC-S-N	AC supply module for IDM-Z1-16*-D-1D-J1* corded 1-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • RS-232 / RS-422 field-side interface (Ex e) • RS-232 reader-side interface
SK-IDM-Z1-160-BD-1D-J1-AC-U-N	AC supply module for IDM-Z1-16*-D-1D-J1* corded 1-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • USB field-side (Ex e) and reader-side (Ex i) interfaces
SK-IDM-Z1-260-D-2D-J1-DC-S-N	DC supply module for IDM-Z1-26*-D-2D-J1* corded 2-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • RS-232 / RS-422 field-side interface (Ex e) • RS-232 reader-side interface
SK-IDM-Z1-260-D-2D-J1-DC-U-N	DC supply module for IDM-Z1-26*-D-2D-J1* corded 2-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • USB field-side (Ex e) and reader-side (Ex i) interfaces
SK-IDM-Z1-260-D-2D-J1-AC-S-N	AC supply module for IDM-Z1-26*-D-2D-J1* corded 2-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • RS-232 / RS-422 field-side interface (Ex e) • RS-232 reader-side interface
SK-IDM-Z1-260-D-2D-J1-AC-U-N	AC supply module for IDM-Z1-26*-D-2D-J1* corded 2-D handheld readers and IDM-Z1-x6*-B-J1* Bluetooth base station <ul style="list-style-type: none"> • USB field-side (Ex e) and reader-side (Ex i) interfaces