

**IE-AD-SP0-P-SPM-P-90****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**SPElink®**

Single pair Ethernet is a technology that only requires one pair of wires to transmit data and power. The resulting benefits will make SPE the preferred network at the field level and beyond.

**Advantages of Single Pair Ethernet**

- Consistent: Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- Future-proof: key technology for Industry 4.0 and IIoT
- Flexible: ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- Innovative: lighter, less space required, and reduced installation effort

**General ordering data**

Version	Single Pair Ethernet, Adapter, SPE socket acc. to IEC 63171-2, M8 socket male contact, T1-B, IEC 63171-2, IEC 63171-5, IP65 (in plugged condition)
Order No.	<a href="#">2814400000</a>
Type	IE-AD-SP0-P-SPM-P-90
GTIN (EAN)	4064675299110
Qty.	10 pc(s).

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Dimensions and weights**

Net weight	4.2 g
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**Temperatures**

Operating temperature	-40 °C...85 °C
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**General data**

Outlet direction	90°	Connection 1	SPE socket acc. to IEC 63171-2
Connection 2	M8 socket male contact	UL 94 flammability rating	V-0
Housing main material	PA 66	Category	T1-B
Contact material	Cu	Contact surface	Ni/Au
Protection degree	IP65 (in plugged condition)	Plugging cycles	750

**Electrical properties**

Dielectric strength, contact / contact	≥ 1000 V DC	Dielectric strength, contact / shield	2250 V DC
Insulation strength	≥ 500 MΩ	Operational voltage range	≤ 50 V AC, ≤ 60 V DC
PoE / PoE+	PoDL acc. to IEEE 802.3bu / cg	Rated current	3.5 A at 0°C

**General standards**

Connector standard	IEC 63171-2, IEC 63171-5
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**Classifications**

ETIM 7.0	EC000313	ETIM 8.0	EC000313
ETIM 9.0	EC000313	ECLASS 10.0	27-44-03-20
ECLASS 11.0	27-44-03-20	ECLASS 12.0	27-44-03-20
ECLASS 13.0	27-44-03-20		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	d1193a9e-dc7c-484a-ba48-176711eb392b

**Approvals**

ROHS	Conform
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**Downloads**

Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

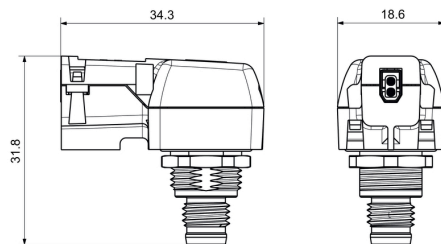
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# Drawings

## Derating curve



Level I gem. IEC 63171

