

TBY-SAI143-F-L-PS-2KS-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

Analogue interfaces are equipped with 40-pole connectors (KS). Versions are available with disconnecting plugs and test points which are extremely useful for voltage and current measurements. There are also versions with useful additional pins for customers who wish to incorporate other elements (resistor ...) for converting voltage/current or monitoring the current loop.

General ordering data

| | |
|-----------------|--|
| Version | Interface, RS, 2 x KS (40P), LP3R 5.08mm |
| Order No. | 1371240000 |
| Type | TBY-SAI143-F-L-PS-2KS-S |
| GTIN (EAN) | 4050118207118 |
| Qty. | 1 pc(s). |
| Available until | 2016-09-30 |

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Technical data
Dimensions and weights

| | | | |
|------------|----------|-----------------|------------|
| Height | 107 mm | Height (inches) | 4.213 inch |
| Width | 131 mm | Width (inches) | 5.157 inch |
| Length | 133 mm | Length (inches) | 5.236 inch |
| Net weight | 432.55 g | | |

Temperatures

| | | | |
|---------------------|-------------|-----------------------|-------------|
| Storage temperature | -40...85 °C | Operating temperature | -25...70 °C |
|---------------------|-------------|-----------------------|-------------|

General data

| | | | |
|--------------------------------|-------|----------------------------------|-------|
| LED status display per channel | red | Disconnection per channel | No |
| Type of test point | No | Switch | No |
| Fuse per channel | 1 A | LED status of the supply voltage | green |
| Power supply fuse | 6.3 A | | |

Connection data

| | | | |
|-------------------------|-------------|--------------------------------|--------------|
| Connection (field side) | LP3R 5.08mm | Connection on control side | 2 x KS (40P) |
| Connection supply | LP 5.08mm | Number of poles (control side) | 40-pole plug |

Ratings data

| | | | |
|--------------------------|---------|------------------------------|-----|
| Operating voltage | 24 V DC | Max. current for common pole | 1 A |
| Max. current per channel | 1 A | | |

Insulation coordination (EN50178)

| | | | |
|----------------------------|-----------|-------------------------------|--------|
| Rated insulation voltage | < 50 V AC | Surge voltage category | III |
| Pollution severity level | 2 | Pulse voltage test (1,2/50µs) | 0.8 kV |
| Insulation test voltage AC | 0.35 kV | | |

Connection field

| | | | |
|----------------------------------|---------------------|------------------------------|----------------------|
| Clamping range, max. | 6 mm ² | Clamping range, min. | 0.13 mm ² |
| Flexible with sleeve, max. | 2.5 mm ² | Flexible with sleeve, min. | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Max. wire cross-section, AWG | AWG 12 | Min. wire cross-section, AWG | AWG 26 |
| Sleeve with plastic collar, max. | 2.5 mm ² | Solid, max. H05(07) V-U | 6 mm ² |
| Solid, min. H05(07) V-U | 0.5 mm ² | Stripping length | 6 mm |
| Tightening torque, max. | 0.6 Nm | Tightening torque, min. | 0.5 Nm |
| Type of connection | Screw connection | | |

Supply connection

| | | | |
|------------------------------|---------------------|-----------------------------------|----------------------|
| Type of connection | Screw connection | Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 6 mm ² | Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² | Flexible with sleeve, max. | 2.5 mm ² |
| Flexible with sleeve, min. | 2.5 mm ² | Ferrule with plastic collar, max. | 0.5 mm ² |
| Wire cross-section, min. AWG | AWG 12 | Wire cross-section, max. AWG | AWG 26 |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |
| Stripping length | 6 mm | | |

Creation date June 12, 2025 11:04:32 AM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

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Technical data**Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002780 | ETIM 7.0 | EC002780 |
| ETIM 8.0 | EC002780 | ETIM 9.0 | EC002780 |
| ETIM 10.0 | EC002780 | ECLASS 9.0 | 27-14-11-52 |
| ECLASS 9.1 | 27-14-11-52 | ECLASS 10.0 | 27-14-11-52 |
| ECLASS 11.0 | 27-14-11-52 | ECLASS 12.0 | 27-14-11-52 |
| ECLASS 13.0 | 27-14-11-52 | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | f9d70a48-3ece-4d71-ba78-a0d617266ffc |

Approvals

Approvals



| | |
|-----------------|---|
| Approvals MAMID | https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ |
| ROHS | Conform |

Downloads

| | |
|-----------------------------|---|
| Product Change Notification | 20220523 Technical change to TBY interfaces |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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Drawings

