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AS 4051.190

Wire Terminal WT L fully automated wire processing machine

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

AS 4051.190 - Wire Terminal WT L fully automated wire processing machine

The Wire Terminal WT L5 R fully automated wire processing machine can process wire cross-sections ranging from 0.5–2.5 mm². This includes length-cutting, insulation-stripping, crimping and project-specific labelling of the wires. The finished, processed wires are guided to the appropriate wire rails in the correct sequence on an order-specific basis. Alternatively, the wire output is also available as an ejection system.



Features

| | |
|---------------------|---|
| Model No. | AS 4051.190 |
| Design | Wire Terminal WT L5 R (wire rail system) |
| Product description | The Wire Terminal WT L5 R fully automated wire processing machine can process wire cross-sections ranging from 0.5–2.5 mm ² . This includes length-cutting, insulation-stripping, crimping and project-specific labelling of the wires. The finished, processed wires are guided to the appropriate wire rails in the correct sequence on an order-specific basis. Alternatively, the wire output is also available as an ejection system. |

Features

Benefits

Fully interlinked, from the E-CAD tool through to the production processes

Continuous top quality

Assembled wires from the wire rail system, chain bundle or wire handling system may be processed in the downstream enclosure wiring process using the "Smart Wiring" tool from Eplan

Comprehensive process optimisation

Simple, fast changeover of consumable materials

Uses a new-technology crimper for various wire end ferrule lengths from 8-18 mm, including infinitely variable partial and full stripping.

Secure wire infeed via a new type of wire routing system including quick-lock mechanism

Simple operation with large 24" touch display

Allows you to respond quickly and flexibly to project changes

Error minimisation even in downstream processes

Amortisation period of 2.5 years from a minimum of 150 enclosures per annum

Make your wire assembly production process 11 times faster

Up to 50% time savings are achievable with a combination of the Rittal Wire Terminal and Eplan smart wiring

Optimum, order-specific labelling of the wires

Technical specifications

5 wire end ferrule infeeds via feeder bowls

Crimping range 0.5 mm²: Crimping length 8 mm (0.31 in.) and 10 mm (0.39 in.)

Crimping range 0.75 mm²: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.) and 12 mm (0.47 in.)

Crimping range 1 mm²: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.) and 12 mm (0.47 in.)

Crimping range 1.5 mm²: Crimping length 8 mm (0.31 in.), 10 mm (0.39 in.), 12 mm (0.47 in.) und 18 mm (0.71 in.)

Crimping range 2.5 mm²: Crimping length 8 mm (0.31 in.), 12 mm (0.47 in.) and 18 mm (0.71 in.)

The Wire Terminal WT L can process wire lengths from 150 mm to 10 m

The WT L Wire Terminal can accommodate one wire infeed block.

Wire output in wire rail magazines

Maximum of 5 wire rails for wire output

Features

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|-----------------------------|---|
| Supply includes | Machine frame and encapsulation Operating unit 1 x WT 16 vibratory bowl feeder for 0.5 mm ² 2 x WT 20 vibratory bowl feeders for 0.75/1.0 mm ² 2 x WT 29 vibratory bowl feeders for 1.5/2.5 mm ² |
| Machinable material | Fine-wire copper cables to EN 60228 / VDE 0295 Category 5 Wire end ferrules with plastic collar to DIN 46228-4 and Multinorm |
| Note | Please talk to your Rittal sales consultant about a bespoke machine configuration. German and English are included as standard with the Wire Terminal The vibratory bowl feeders and the separation of single wire end ferrules are designed for the dimensional tolerances of Rittal wire end ferrules to DIN 46228-4:2019-02. If the wire end ferrules used exceed the defined dimension tolerances, it may be necessary to design/test a new bowl feeder and to adapt the wire end ferrule separation. We reserve the right to make technical modifications |
| Machine options | Wire store WT Tube 12 (4051.218) WT printer IQ.JET, black 4051281 WT printer IQ.JET, white 4051280 |
| Interfaces | Eplan Pro Panel Eplan Smart Wiring |
| Compressed air supply min. | 5.5 bar |
| Compressed air supply max. | 6 bar |
| Rated operating voltage | 230 V, 1~, 50 Hz/60 Hz |
| Control voltage (DC) | 24 V |
| Power consumption (approx.) | 1 kW |
| Cycle time | 11 s |
| Wires per hour approx. | 320 |
| Support area | Width: 2,170 mm Height: 1,870 mm Depth: 1,080 mm |
| Customs tariff number | 84633000 |

Features

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|---------------------|--|
| ETIM 8 | EC000000 |
| ECLASS 8.0 | 18129090 |
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