



EN

Retrofit option

ON SENSOR UNIT WIRE END

099-001190-EW501

Observe additional system documents!

06.05.2019

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General instructions

WARNING



Read the operating instructions!

The operating instructions provide an introduction to the safe use of the products.

- Read and observe the operating instructions for all system components, especially the safety instructions and warning notices!
- Observe the accident prevention regulations and any regional regulations!
- The operating instructions must be kept at the location where the machine is operated.
- Safety and warning labels on the machine indicate any possible risks. Keep these labels clean and legible at all times.
- The machine has been constructed to state-of-the-art standards in line with any applicable regulations and industrial standards. Only trained personnel may operate, service and repair the machine.
- Technical changes due to further development in machine technology may lead to a differing welding behaviour.

In the event of queries on installation, commissioning, operation or special conditions at the installation site, or on usage, please contact your sales partner or our customer service department on +49 2680 181-0.

A list of authorised sales partners can be found at www.ewm-group.com/en/specialist-dealers.

Liability relating to the operation of this equipment is restricted solely to the function of the equipment. No other form of liability, regardless of type, shall be accepted. This exclusion of liability shall be deemed accepted by the user on commissioning the equipment.

The manufacturer is unable to monitor whether or not these instructions or the conditions and methods are observed during installation, operation, usage and maintenance of the equipment.

An incorrectly performed installation can result in material damage and injure persons as a result. For this reason, we do not accept any responsibility or liability for losses, damages or costs arising from incorrect installation, improper operation or incorrect usage and maintenance or any actions connected to this in any way.

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1 For your safety**1.1 Safety instructions****⚠ WARNING**

Do not carry out any unauthorised repairs or modifications!

To avoid injury and equipment damage, the unit must only be repaired or modified by specialist, skilled persons!

The warranty becomes null and void in the event of unauthorised interference.

- Appoint only skilled persons for repair work (trained service personnel)!



Risk of accidents due to non-compliance with the safety instructions!

Non-compliance with the safety instructions can be fatal!

- Carefully read the safety instructions in this manual!
- Observe the accident prevention regulations and any regional regulations!
- Inform persons in the working area that they must comply with the regulations!

These supplementary sheets must be used in conjunction with the appropriate standard operating instructions for the described product! These supplementary sheets expand or replace one or more chapters of the same name(s) in the standard description.

Read and observe the operating instructions for all system components, especially the safety instructions!

2 Intended use**⚠ WARNING**

Hazards due to improper usage!

The machine has been constructed to the state of the art and any regulations and standards applicable for use in industry and trade. It may only be used for the welding procedures indicated at the rating plate. Hazards may arise for persons, animals and material objects if the equipment is not used correctly. No liability is accepted for any damages arising from improper usage!

- The equipment must only be used in line with its designated purpose and by trained or expert personnel!
- Do not improperly modify or convert the equipment!

2.1 Applications

Wire end sensor for monitoring the drum fed welding wire in a welding system for automated MMA welding.

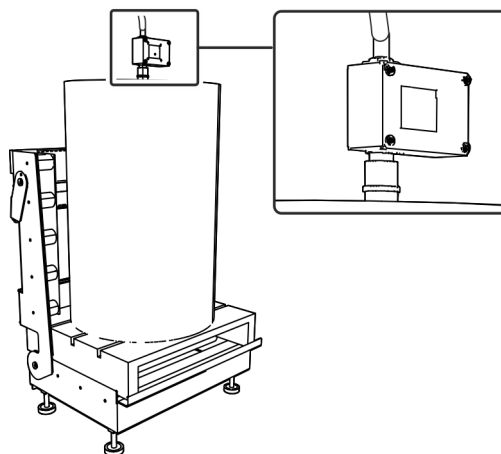
2.2 Diagram of the assembled option

Figure 2-1

3 Design and function

3.1 Connection

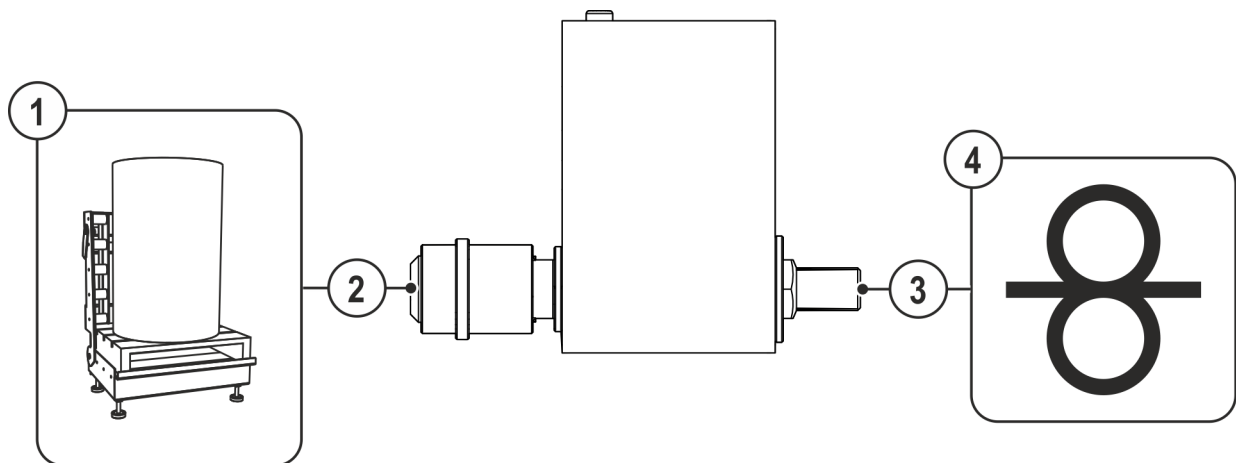


Figure 3-1

Item	Symbol	Description
1		External welding wire source
2		Wire feed rapid-action closure Connection to wire source
3		Wire exit, rapid-action closure Connection to wire feed connecting hose
4		Wire feed unit

3.2 Control cable assembly

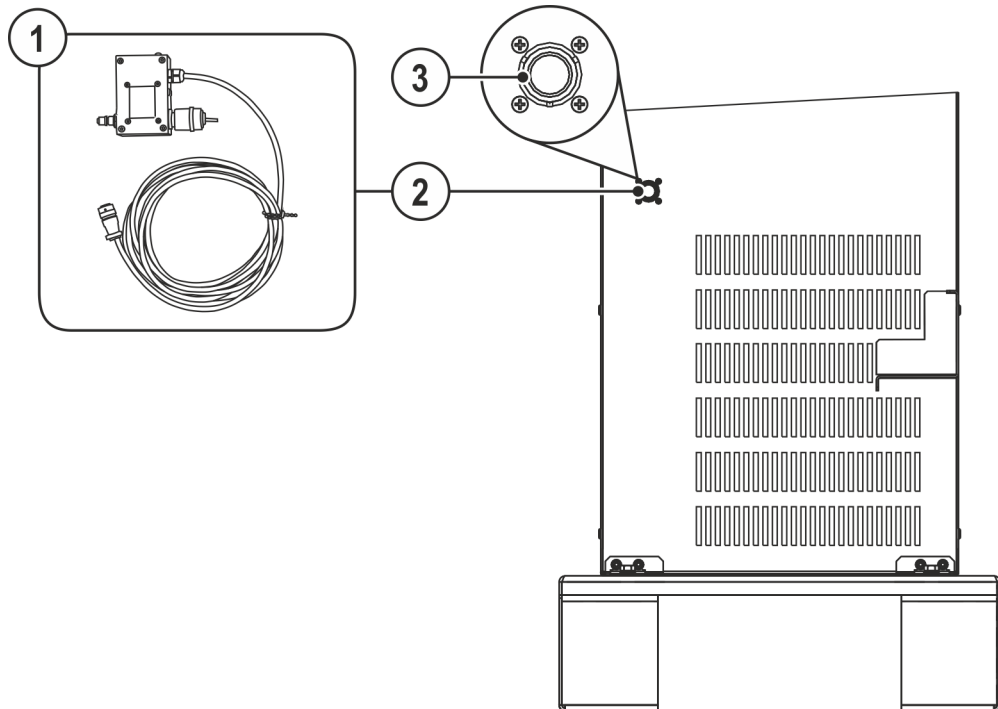


Figure 3-2

Item	Symbol	Description
1		Wire end sensor A warning is issued as soon as the end of the wire (insufficient wire) is reached. The process will not be shut down.
2		Wire end sensor control lead plug
3		Wire end sensor connection

3.3 Functional characteristics

The cold wire supply is monitored by the "Insufficient wire" sensor, which is fastened to the wire drum and signals low wire supply in good time. If the wire supply is insufficient a process warning is issued on the system interface (wire error). However, this is just a warning; the process will not be shut down.