

EUROMAP 28

Pipe and Profile Extrusion Lines
Electrical Interface for
Line Speed Detecting Device (Measuring Wheel)

Version 2.0, July 2007
(7 pages)

This recommendation was prepared by the Technical Commission of EUROMAP.

HISTORY

- 2004-09 *Publication of version 1.0*
- 2007-07 *Publication of version 2.0*
Updated to meet EUROMAP 27, version 3.1;
Further supplier added.

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1 Scope and Application

This EUROMAP recommendation defines the connection between the line speed detecting device of a pipe and profile extrusion line, e.g. an external measuring wheel and the saw. This is intended to provide interchangeability.

In addition recommendations are given for signal voltage and current levels.

2 Description

The power supply for the line speed detecting device (+24VDC) is given by the saw.

The following four types of connection of the line speed detecting device are existing:

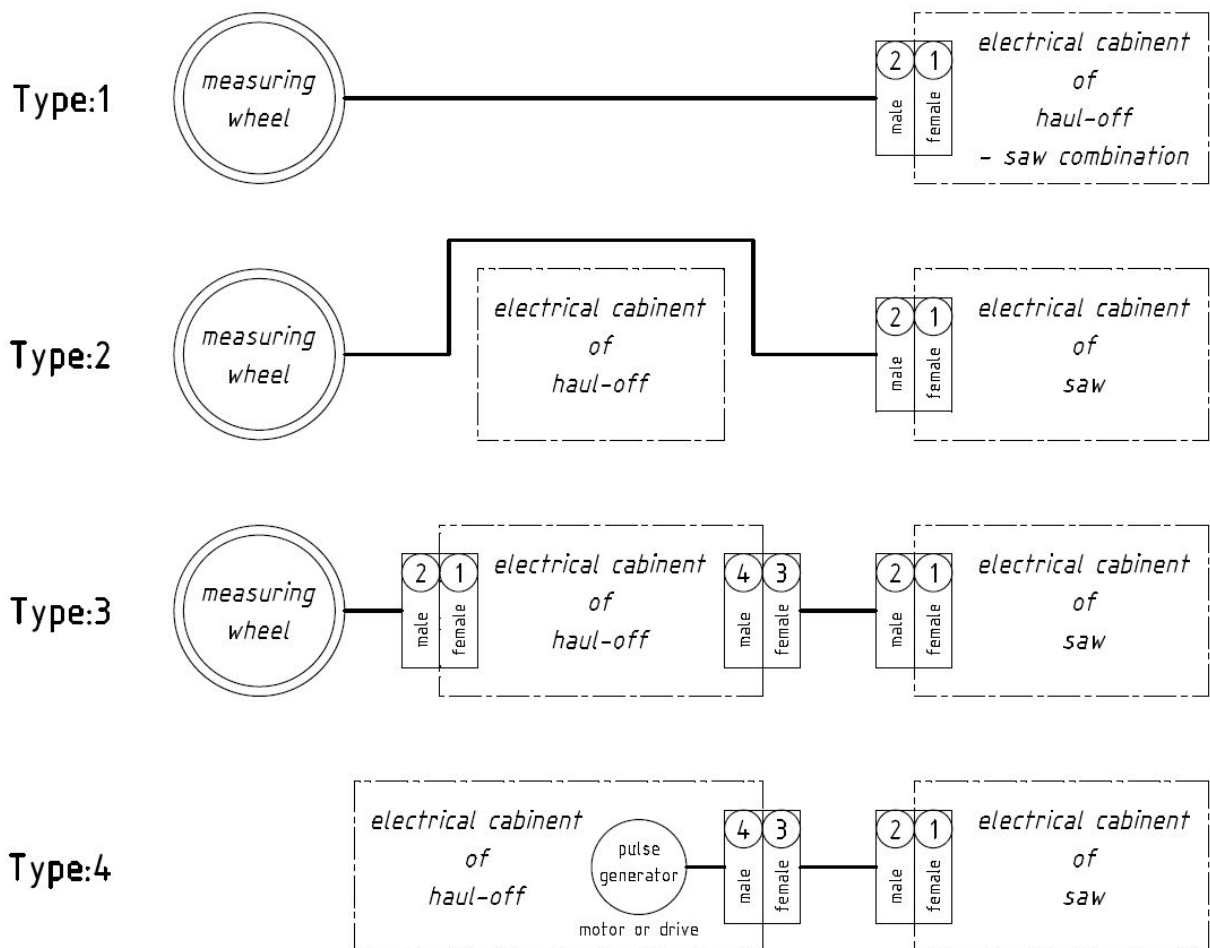


Figure 1: Connection of line speed detecting device and saw

2.1 Plug and socket outlet

The connection between the line speed detecting device and the saw is achieved by the plugs specified below.

Arrangements of pins and sockets viewed from the mating side (opposite the wiring side).

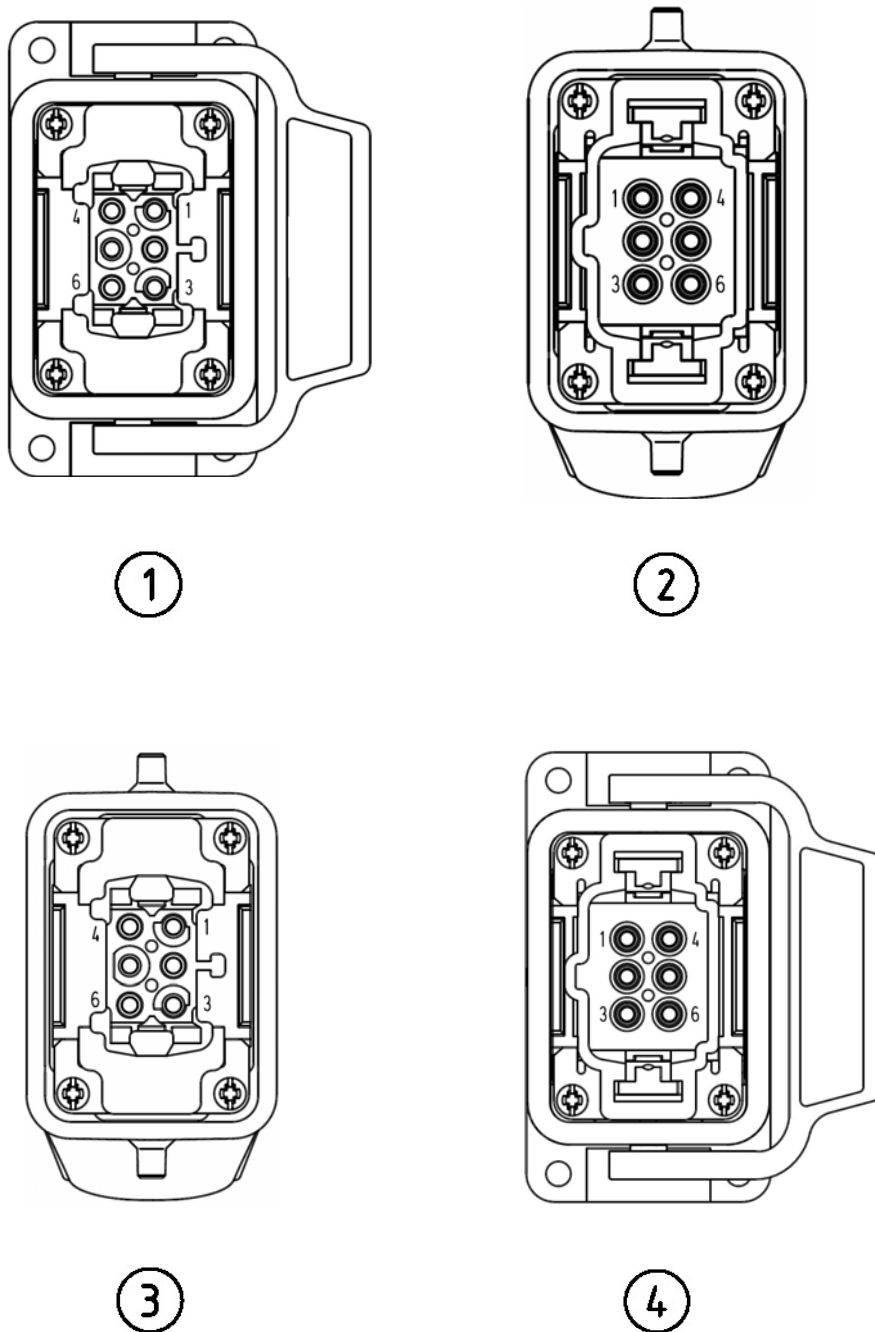


Figure 2: Four types of connectors as shown in figure 1

2.2 Plug contact assignment

Plug and socket shall be wired as shown in figure 3.

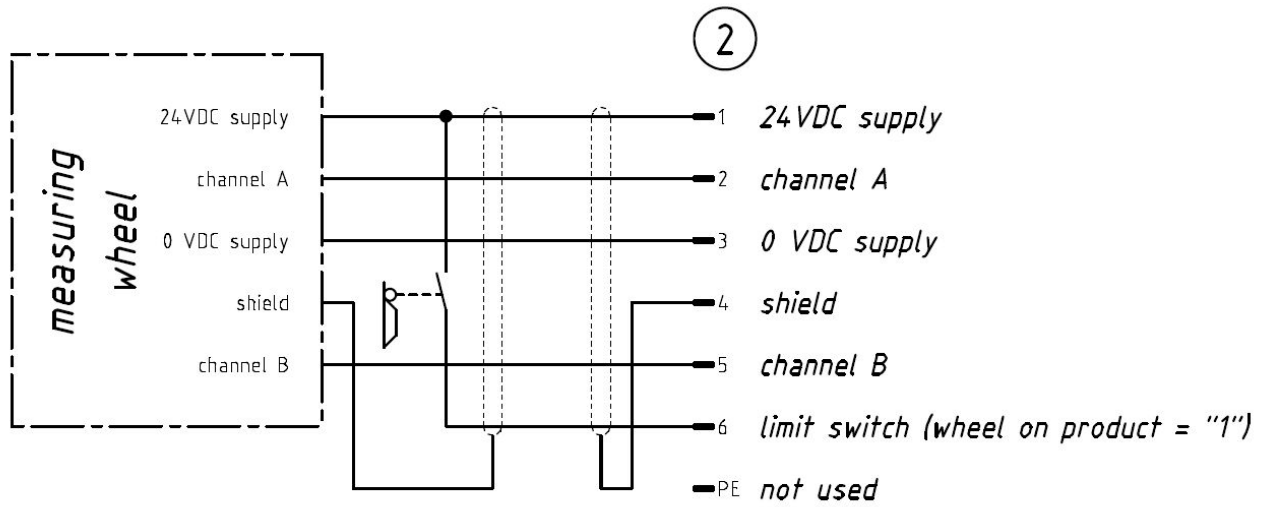


Figure 3: Wiring of line speed detecting device

2.3 Connection kit

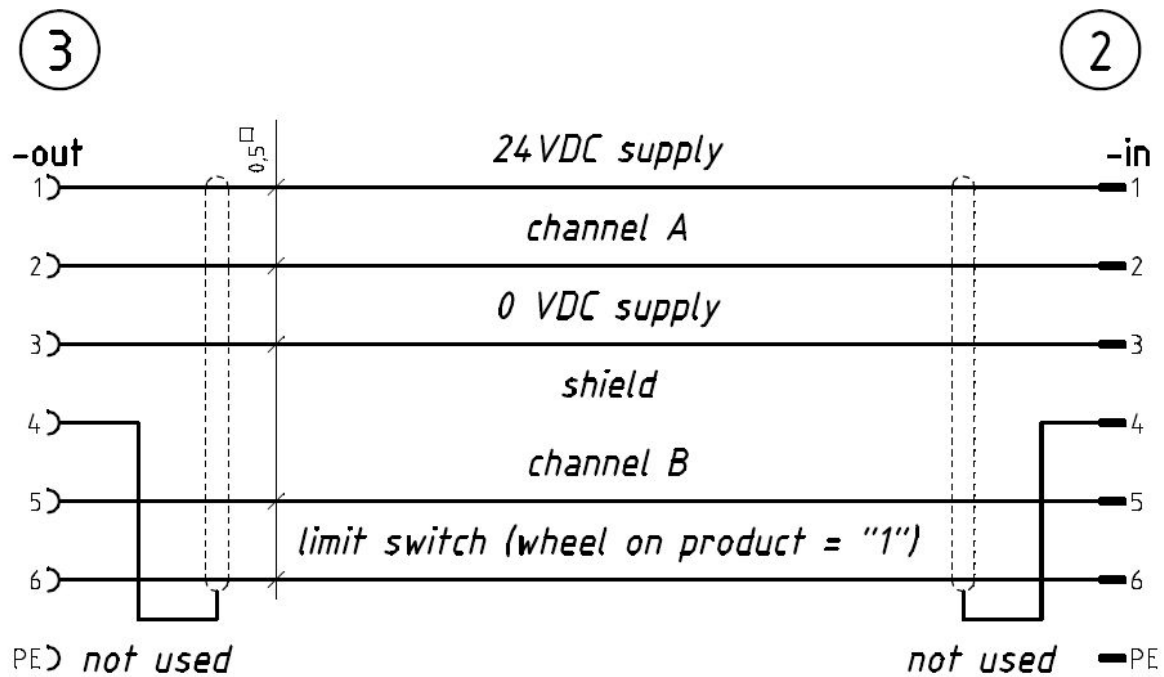


Figure 4: Wiring of connection kit

2.4 Sources of supply

Supplier	Harting	Wieland	TYCO (HTS)	Weidmüller
Plug type	Han 6 ES	400V, 6pin + PE	HE 6	HE 6
①				
Housing	09300060301	70.320.0628.0	1-1102246-2	1202100000
Socket insert	09330062716	70.500.0653.0	7-1103635-1	1745760000
②				
Housing	19300061540	70.350.0628.1	0-1106419-2	1788100000
Pin insert	09330062616	70.510.0653.0	7-1103634-1	1745820000
③				
Housing	19300061540	70.350.0628.1	0-1106419-2	1788100000
Socket insert	09330062716	70.500.0653.0	7-1103635-1	1745760000
④				
Housing	09300060301	70.320.0628.0	1-1102246-2	1202100000
Pin insert	09330062616	70.510.0653.0	7-1103634-1	1745820000
Address	HARTING Electric GmbH & Co. KG Wilhelm-Harting-Str. 1 32339 Espelkamp Germany	WIELAND Electric GmbH Brennerstr. 10-14 96052 Bamberg Germany	TYCO Electronics AMP GmbH HTS Division Ohlenhohnstr. 53819 Neunkirchen Germany	Weidmüller Interface GmbH & Co. KG Klingenbergstr. 16 32758 Detmold Germany

Note: Further suppliers are invited to be listed

2.5 Resolution of speed detecting device

The minimum resolution shall be 1 mm per pulse.

However, at low line speed (< 10m/min) a low resolution (<0.5mm per pulse) is not suitable.

The maximum resolution shall be 0.1 mm per pulse.

EUROMAP

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