EUROMAP 13

INJECTION MOULDING MACHINES, CORE PULLERS
ELECTRICAL INTERFACE

Version 1.3, November 2009
(3 pages)

This recommendation was prepared by the Technical Commission of EUROMAP.

A further supplier added (v. 1.1).
Supplier's data amended (v. 1.2).
A further supplier added (v. 1.3).

1. SCOPE AND APPLICATION

This EUROMAP recommendation defines the connection between the injection moulding machine and the core pullers. This is intended to provide interchangeability.

The connection may be used for two core pullers only. In case of further core pullers another plug has to be applied.

2. DESCRIPTION

The plug is suitable for potential-free contact of limit switches as well as for proximity switches. Reference potential and power supply of 24 V, direct current is available (see table 1).

The range of signal voltages is +24 V ±20 % d.c. All signals are continous signals, capable of driving a maximum of 50 mA.
The location of the plug is preferably on the moveable platen.

3. PLUG AND SOCKET OUTLET

The connection between the injection moulding machine and the core pullers is achieved by the plugs specified below [1]. The female side of the plug is fitted to the injection moulding machine.

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

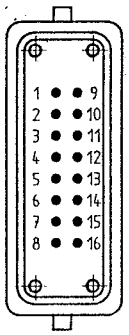

Figure 1: Plug on the core pullers

● = pin
○ = socket

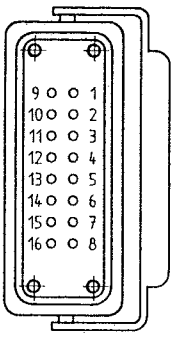

Figure 2: Plug on the injection moulding machine

1) See page 2 for suppliers

Table 1: **Plug contact assignment**

Plug contact No	Signal designation	Description
1 – 4	Power supply	Positive voltages
5 – 8	Reference potential	Ground
9	Core 1 retracted	The signal is delivered to the plug contact if core 1 is retracted.
10	Core 1 is in	The signal is delivered to the plug contact if core 1 is in the mould.
11	Core 2 retracted	The signal is delivered to the plug contact if core 2 is retracted.
12	Core 2 is in	The signal is delivered to the plug contact if core 2 is in the mould.
13	Ejector is back	The signal is delivered to the plug contact if ejector is back.
14 – 16		Not assigned.

4. LOAD CAPACITY OF THE PLUG CONTACTS

A current of at least 10 mA must be maintained during signalling.

SOURCE OF SUPPLY

The plugs are available from the following manufacturers, e.g.,

- Contact GmbH, Gewerbestr. 30, 70565 Stuttgart/Germany
  Type: H-A 16
- HARTING Electric GmbH & Co. KG, Wilhelm-Harting-Str. 1, 32339 Espelkamp/Germany
  Type: Han 16 A
- I.L.M.E. SPA., Via Marco Antonio Colonna 9, 20149 Milano/Italy
  Types: CDA 16, CDC 16
- Tyco Electronics AMP GmbH, HTS Div., Ohlenhohnstr. 17, 53819 Neunkirchen/Germany
  Type: H A 16
- Walter-Werke GmbH, Postfach 1180, 67298 Eisenberg/Germany
  Type: A 16
- Weidmüller Interface GmbH & Co. KG, Klingenbergstr. 16, 32758 Detmold/Germany
  Type: HA 16
- Westec S.r.L., Via Fiume Lambro 1, 20097 San Donato Milanese/Italy
  Type: S-A 16

The plugs from these suppliers are interchangeable.

Note: Further suppliers are invited to be listed.

EUROMAP

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