

## Smart Control Plug Data Sheet

SCP412

### Description

The Cavity Eye Smart Control Plug (SCP) device was developed for the Smart Moulding Control system. It is a special data processing and communication unit, with the role of ensuring the communication between the Cavity Eye pressure measuring system and the injection molding machine.

### Application

The device is capable of measuring the cavity pressure in moulds equipped with Cavity Eye pressure sensors. It is a part of the Cavity Eye mould pressure measurement system and can be used for communication with the injection molding machine, mould valve control, part sorting on 8 different channels, and stopping the injection molding machine.

Fulfills the industry's requirements by having a heavy-duty design with IP64 protection rating.

### How does it work?

The device receives the signals from the injection moulding machine, processes and transmits them to the central unit. Furthermore, it is responsible for transforming the signals sent by Cavity Eye system to 24V signals and forwarding them to the injection molding machine.



### Technical Data

SCP412		
Weight	g	311
Main Dimensions	mm	110x70x36
Operating temperature range	°C	-40 - +85
Power supply	IEEE 802.3af	max. 56 V
Protection rating	IEC 60529:1989	IP64
Number of inputs	pcs	4
Number of outputs	pcs	12
Connection		RJ-45

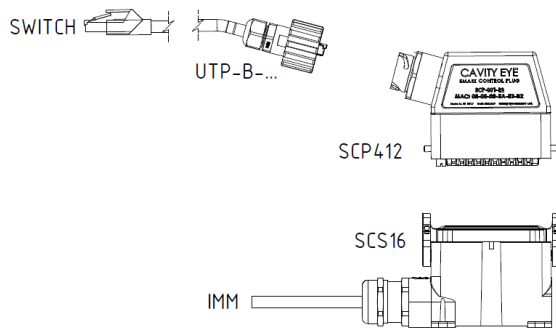
### Placement

An injection moulding machine equipped with Cavity Eye Smart Control Socket is necessary to the SCP to operate properly. The counterpart (SCS16) of the SCP must be placed on the injection moulding machine. Connect the SCP device on the SCS16 and secure the connection with the locking lever. (1. figure)

Connect the SCP device to the Cavity Eye data processing unit with the help of the standard RJ-45 socket. The device connects with a bayonet lockable UTP cable to the adequate socket of the Switch device. The UTP cables can be found in the Cavity Eye's catalogue in different lengths.

### Optional Accessories

Name	Item Number
UTP cable 5 m	UTP-B-5
UTP cable 10 m	UTP-B-10
UTP cable 15 m	UTP-B-15



Yellow background → Inputs for Cavity Eye

Optional outputs → For valve control and cavitygroup separation

1. Figure: Connections of the device

**Default pin allocation**

Pin	Cable number	Name	Function
1		Memory GND	
2		Memory Data	
3	G/Y	IMM GND	Grounding
4	1	IMM 24V	24V from IMM
5	2	IMM Trigger	Injection start signal from IMMFröccsjel a géptől
6	3	IMM Autocycle	Automatic mode
7	4	In 3	
8	5	In 4	
9	6	CE OKNOK	Good part signal
10	7	CE Switch	Switchover signal
11	8	CE Cycle Stop	Machine stop at the end of the cycle
12	9	CE Prompt Stop	Immediametely machine stop
13	10	Out 5	Optional
14	11	Out 6	Optional
15	12	Out 7	Optional
16	13	Out 8	Optional
17	14	Out 9	Optional
18	15	Out 10	Optional
19	16	Out 11	Optional
20	17	Out 12	Optional