

WS/WF systems/modules	Order number
WF 705	6FM1 705-3AA00
WF 706 with 3 channels WF 706 with 6 channels	6FM1 706-3AA10 6FM1 706-3AB10
WF 707	6FM1 707-3AA10
WS 720 A	6FM1 720-3AA10
WF 721	6FM1 721-3AA20
WF 723 A	6FM1 723-3AA10
WF 723 B	6FM1 723-3BA00
WF 723 C	6FM1 723-3CA00
WF 726 C	6FM1 726-3CA10
WF 726 CW	6FM1 726-3CW00
WF 746	6FM1 746-3AA00
WF 763 without elastic-limit control WF 763 with elastic-limit control	6FM1 763-3AA10 6FM1 763-3AB10
WF 771	6FM1 771-3AA00
IP 252MC	6ES5252-5AA11
IP 252MC-DP	6ES5252-5EA11
IP 252MC-DSP	6ES5252-5FA11

Subject to change without prior notice.

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Equipment for Special Machines

WF 725/WF 726

Positioning Modules

Planning Instructions

Edition 10.96

Part 1
Description of the Hardware Interface

1 Structure of the Hardware

The WF positioning modules together with the drives and mechanics control single operations and sequential operations in automation systems.

Depending on type of the operator prompting a different hardware and software configurations can be used. Basically, two configurations are available:

- Configuration with programmer and machine control panel

This configuration consist of PG 730, PG 750 or PG 770 programmer and specific machine control panel on the hardware side and standard software I-726 and if necessary standard software overlay on the software side.

- Configuration with monitor and keyboard

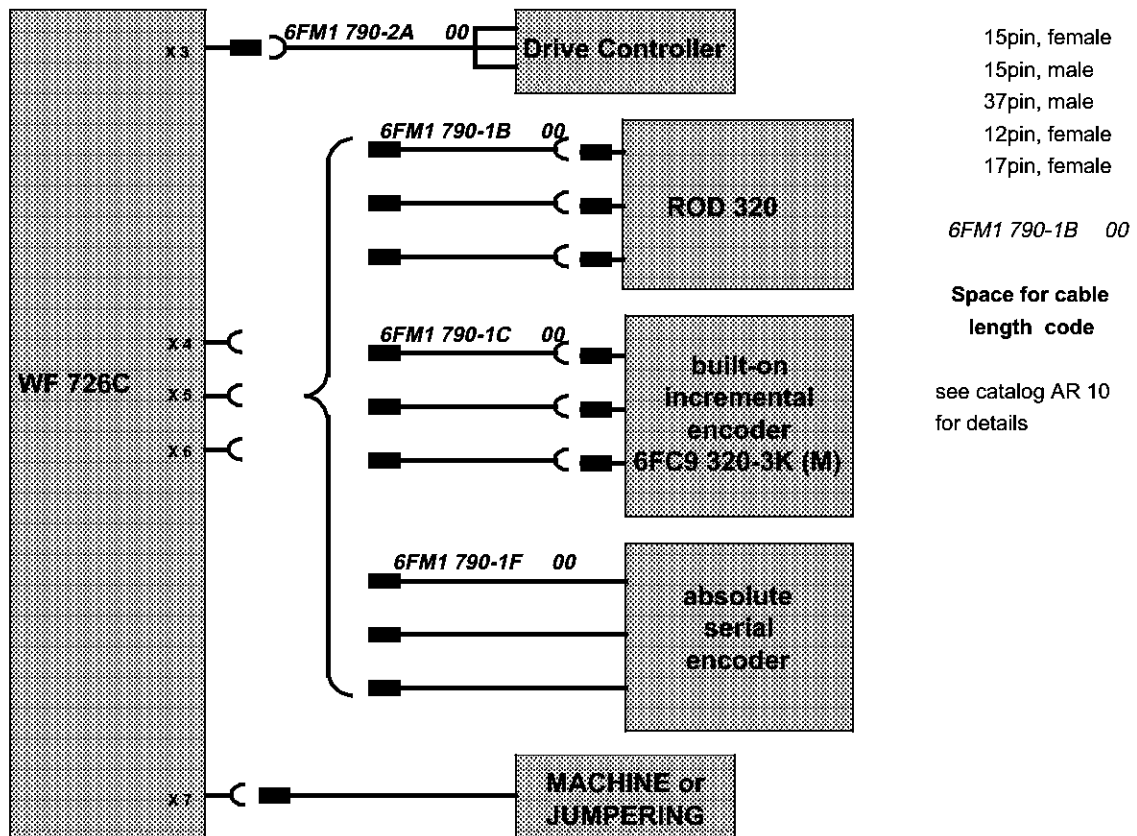
This configuration consist of WF 470 CRT or GRACIS display system, monitor and keyboard or operator panel on the hardware side and standard software I-726 with standard software III-726 on the software side. The standard software overlay, which provides more convenience at the interface programming, can also be used.

This chapter describes the above mentioned hardware configurations.

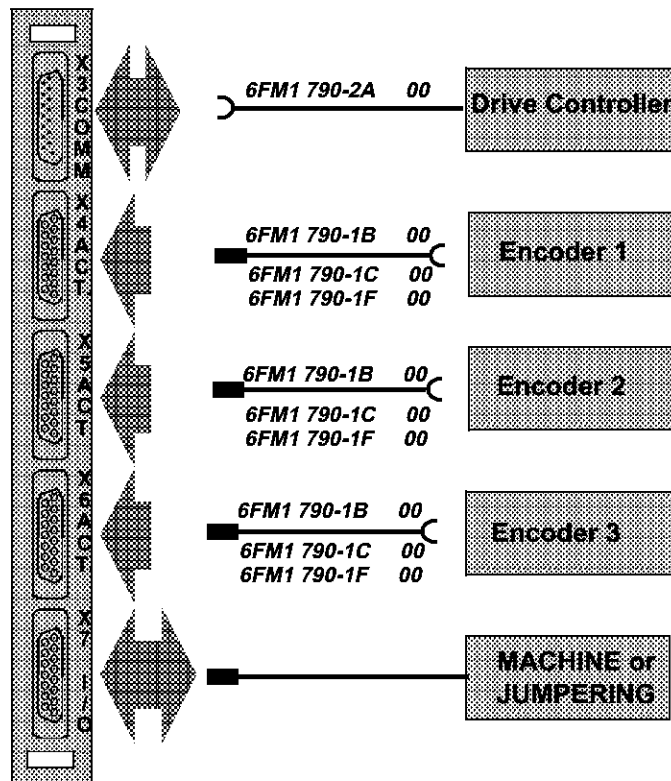
This manual is devoted solely to the hardware which consist of different configuration variants utilizing WF 725 / WF 726 positioning module.

The other hardware and software configurations are described in separate manuals which are listed below (see chapter 7).

2.3 WF 726C



3.1.2 Overview of WF 726 C



6FM1 790-1B 00

Space for cable
length code

see catalog AR 10
for details

Cable from Serial Input to Absolute Encoder

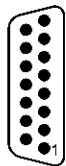
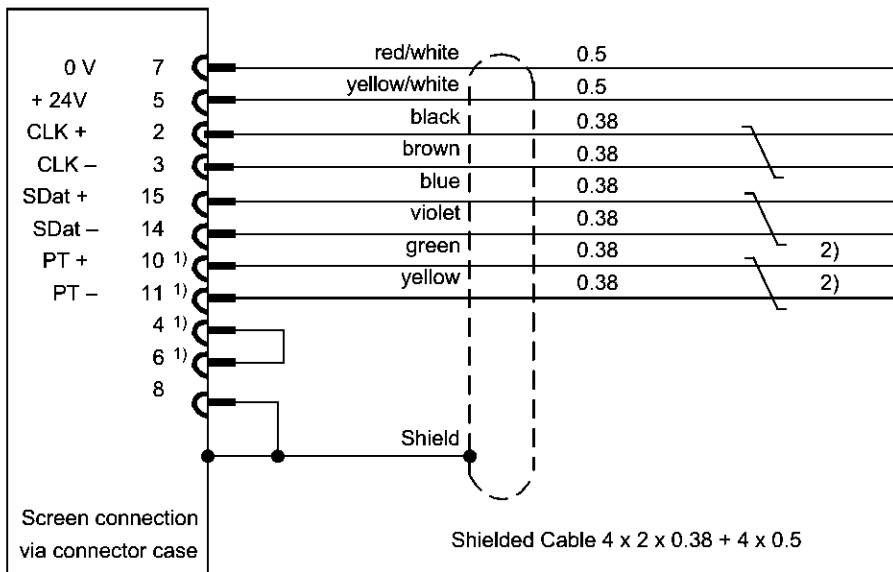
Order no.: 6FM1 790-1F 00

WF 726 C

Connectors: X4, X5, X6

Serial Absolute Encoder

Cable end unfinished



Connector

D-Sub, Siemens
15pin, male
6FM1 790-8DA00

Terminal side

Free cable end

100 mm bared,
wires provided with pin-type
cable sockets

The above cable can be used for connection of SSI absolute encoders to various WF modules. For the WF 726 C, the line contains on pins 4, 6, 10 and 11 wired lines which are not used together with SSI absolute encoders.

The screen of the actual-value line must be earthed over a large area on the module side when entering into the cabinet.

The encoder must be connected according to manufacturer's instructions.

- 1) Pins for WF 726 C are without significance in connection with SSI absolute encoders
- 2) Pins for WF 726 C must not be wired with the encoder, but have to be insulated on the encoder side

5 Technical Data

Electrical and mechanical characteristics (5 V)	WF 725 A	WF 725 B WF 726 B	WF 726 C **
Voltage level 5 V ($\pm 5\%$)	Voltage is provided by SIMATIC	Voltage is provided by SIMATIC	Voltage is provided by SIMATIC
Internal current consumption at 5V (without encoder) *	2.5 A	3.0 A	1.3A
Permissible load per encoder for the internal power supply	max. 0.3 A	max. 0.3 A	max. 0.3 A
Required encoder input current	5 mA	5 mA	10 mA

Electrical and mechanical characteristics (10 V)	WF 725 A	WF 725 B WF 726 B	WF 726 C
Voltage Level ± 10 V (command value output)	Voltage is generated internally	Voltage is generated internally	Voltage is generated internally
Maximum output current	2 mA	2 mA	2 mA

Electrical and mechanical characteristics (24 V)	WF 725 A	WF 725 B WF 726 B	WF 726 C
Voltage level 24 V ($\pm 5\%$)	24 V	24 V	24 V
Inputs	5 mA	5 mA	5 mA
Outputs	0.4 A	0.4 A	0.4 A
Permissible load per encoder	max. 0.3 A	max. 0.3 A	max. 0.3 A
Required encoder input current	5 mA	5 mA	10 mA
Space requirements in SIMATIC rack	1 SEP	2 SEP	1 SEP
Frequency limit for encoder input (before quadrupling)	200 kHz	200 kHz	200 kHz
Data transfer speed	-	-	1 MHz

*) In the current balance, 0.3 A per incremental encoder must be provided on the 5 V side

**) There is no need for fan component when WF 726 C is used.