


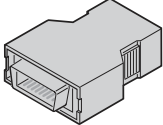
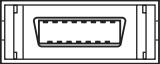

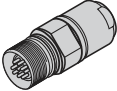
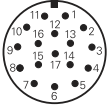



Interfaces

Fanuc and Mitsubishi Pin Layouts

Fanuc pin layout

HEIDENHAIN encoders with the code letter F after the model designation are suited for connection to Fanuc controls with

- **Fanuc 01 serial interface**
with 1 MHz communication rate
- **Fanuc 02 serial interface**
with 1 MHz or 2 MHz communication rate

15-pin Fanuc connector					17-pin HEIDENHAIN coupling				
									
	Power supply					Absolute Position Values			
	9	18/20	12	14	16	1	2	5	6
	7	1	10	4	–	14	17	8	9
	U_P	Sensor U_P	0V	Sensor 0V	Shield	Serial Data	Serial Data	Request	Request
	Brown/ Green	Blue	White/ Green	White	–	Gray	Pink	Violet	Yellow


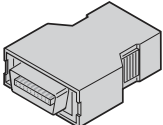


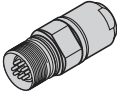
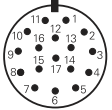




Shield on housing; **U_P** = power supply voltage

Sensor: The sensor line is connected internally with the corresponding power line

Vacant pins or wires must not be used!

Mitsubishi pin layout

HEIDENHAIN encoders with the code letter M after the model designation are suited for connection to controls with the **Mitsubishi high-speed serial interface**.

10 or 20-pin Mitsubishi connector					17-pin HEIDENHAIN coupling				
									
	Power supply					Absolute Position Values			
	10-pin	1	–	2	–	7	8	3	4
	20-pin	20	19	1	11	6	16	7	17
		7	1	10	4	14	17	8	9
	U_P	Sensor U_P	0V	Sensor 0V	Serial Data	Serial Data	Request frame	Request frame	
	Brown/Green	Blue	White/Green	White	Gray	Pink	Violet	Yellow	

Shield on housing; **U_P** = power supply voltage

Sensor: The sensor line is connected internally with the corresponding power line

Vacant pins or wires must not be used!