M600 OEM

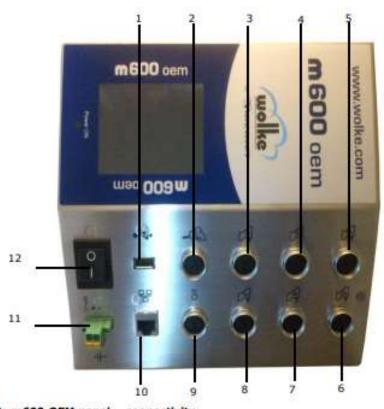


Fig. 4_23: m600 OEM panel - connectivity

Terminal for the USB connection 7 Terminal for print head 4
Terminal for external shaft encoder for measuring the speed of the product being printed
Terminal for print head 1 9 Terminal for I/O connection
Terminal for print head 3 10 Terminal for Ethernet interface.
Terminal for print head 5 11 Power socket
Terminal for print head 6 12 Two pole ON/OFF switch

Fotocelula

12.4.6 Photoelectric Cell on the Print Head of the m600 OEM

The output on the standard photoelectric cell from Keyence is equipped with a NPN transistor (open-collector). This means that the output signal is an inactive high-resistance one and is drawn from ground (0 Volt) in the active state. Given that in the m600 OEM, this signal is connected internally to a pullup resistor against +5 Volt, the signal level received by the m600 OEM is either 0 Volt (active) or +5 V (inactive).

Plug-and-Socket Connector Used

A 3-pole plug-and-socket connector is used for the connection.



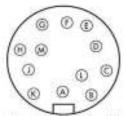
Cable connector Cable tie, series 712, type 09-0405-00-03

Top view of the solder side of the plug

PIN on the m600 OEM	Function	Value m600 OEM	Cable colour	I/O
1	Output signal of photoelectric cell	GND (0 V DC)	black	<-
2	Vcc	+ 24 V DC	brown	->
3	GND	Ground (0 V)	blue	->

Tab. 12_32: Pin assignment of the photoelectric cell

Encoder



Cabo principal

Cable connector Binder, series 423, type 99-5629-15-12

Top view of the solder side of the plug

Pin on the m600 OEM	Function	Values m600 OEM	I/O
A	3		
В	GND	0 V DC	-> 0
c	Output signal A		<-1
D	GND (jumpered in plug)		
E	Output signal A, inverted		<- I
F.			
G	Vcc	+5 V DC max. 0,5 A	-> 0
н	Output signal B (90° out of phase)	1	<-1
3	GND (jumpered in plug)	-	
K	Output signal B, inverted		<- I
E			
М			

Tab. 12_25: Connector pin assignment - shaft encoder socket

Cabo extensor



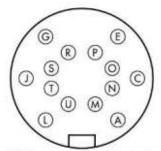
Cable connector Binder, series 423, type 99-5629-15-12

Cable coupler Binder, series 423, type 99-5630-15-12

Top view of the solder side of the plug

Pin on the m600 OEM	Function	Pins on the coupler	
Α	111	Α	
В	GND	В	
С	Output signal A	С	
D	GND (Jumpered in plug)	D	
E	Output signal A, inverted	E	
F		F	
G	Vcc	G	
Н	Output signal B (90° out of phase to A)	н	
1	GND (Jumpered in plug)	3	
K	Output signal B, inverted	к	
L		L	
М	8	M	

Tab. 12_27: Connector pin assignment - Shaft encoder extension cables



Conector do cabo Série Binder 423, Tipo 99-5651-15-14

E/S 24V(O/I)

Vista superior do lado da solda do conector

12.4.4.1 24 V DC Socket Version

PIN on the m600 Function Cable colour I/O OEM m600 OEM 24 V DC white/yellow -34 3 Ext. + 24 V DC black. 4-(for the outputs) T m600 GND brown -36 A Ext. GND (for the outputs) 20 gray C Input 1 m600 OEM pink 20 G Input 2 m600 OEM red 45 -Input 3 m600 OEM E purple 4-N Input 4 m600 OEM white/green 20 E Ext. GND (for the inputs) blue 4. 0 Output 1 m600 OEM green/brown -34 Output 2 m600 OEM R vellow/brown -36 S Output 3 m600 OEM white. -34 Output 4 m600 OEM vellow -36

Tab. 12_28: Connector pin assignment of the 24 V DC I/O socket

24 V DC socket version