integra PP 108 bicolor



General Information:	
Printing technology:	Piezo Technology
Supported printing technology	PP
Max. Number of printheads	1
Max. number of production lines	1
Print distance	1-3 mm
Weight:	10.000 g (without ink)
Length:	see drawings in the appendix
Width:	
Height:	
Temperature range:	10 to 40°C
Relative humidity, maximum (non-condensing):	30 to 85 %
Maximum operating time:	The device is designed for continuous operating

Special features:

- Print height of 108 mm without offset
- One system, one print head for printing two colours on absorbent product surfaces
- Different colors available
- Speeds of 150 m/min at 360 dpi
- Air inclusions in the nozzle rows are not possible
- Small fonts from 1mm, high resolution graphics / logos
- Easy commissioning and venting of the ink system
- Pigmented MOF oil ink (Mineral Oil free) optimal for printing on absorbent surfaces in the food industry
- Internal ink tanks with large ink reservoir (max. 750 ml)

Restrictions:

- Only oil-based ink available for absorbent surfaces

Electrical:	
Input voltage at the device	90 - 240 V AC / 50-60Hz (1~)
Current consumption, max.	1,7 A
Power consumption 36V avr	0,85 A
Power consumption 36V, max.	2,25 A
Standby power input	5 W

Connections:	
Sensor	Sub-D 15 pol
Encoder	Sub-D 15 pol
In-/ Outputs	Sub-D 15 pol
EIA 232	Sub-D 15 pol
USB	USB-A socket for stick
Ethernet	RJ45

Data interfaces:	
EIA 232	Sub-D 15 pol
Ethernet	RJ45
USB	USB-A socket for stick

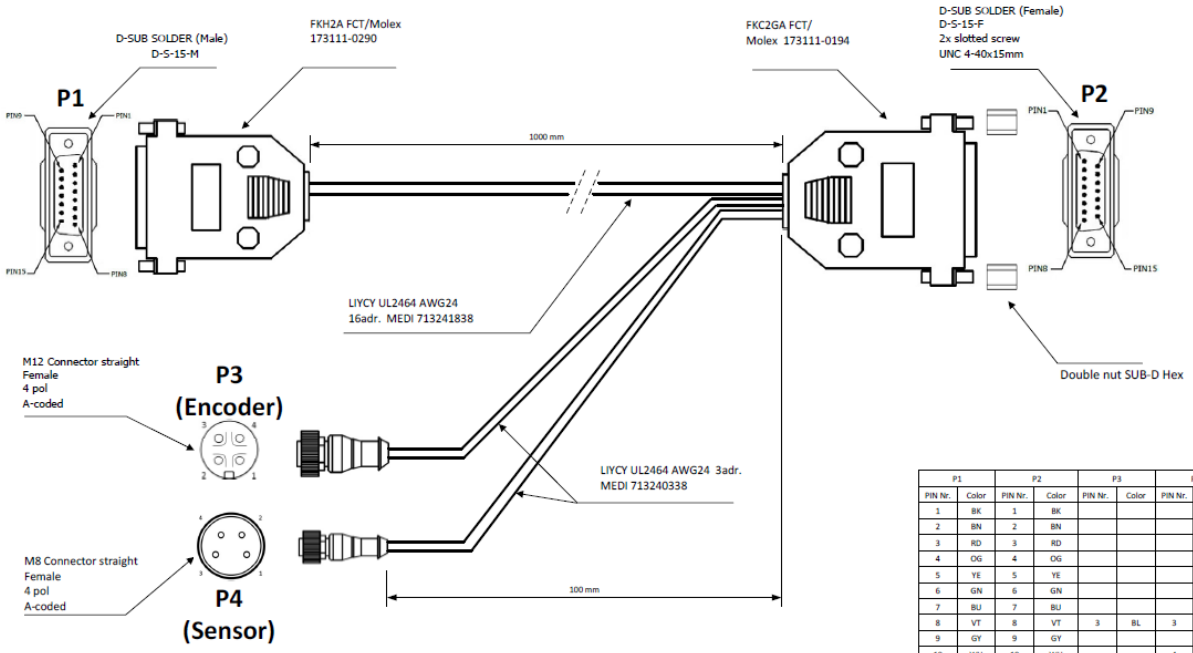
Performance data:	
Cable length System unit / Power supply in m	1,8
Text layout	integra Command Software
Parameter input	integra Command Software
Fonts	all available Windows fonts optional: customer-specific fonts
Print height in mm	1 to 108
Max. print resolution[1)] in dpi	180 / 360 dpi vertical 50 to 900 dpi horizontal
User language Software	German, English, French, Spanish, Japanese and more
Barcodes[1)]	EAN 8, EAN 13, EAN 128, Code 2/5, Code 2/5 check, Code 39, Code 39 check, Code 128, DUN14, GS1 Databar, other on request
2D Codes[1)]	Datamatrix, GS1 Datamatrix, QR-Code, PPN-Code, other on request
Automatic functions[1)]	Date, Time, Counter, Variable, customized links[1)]
Graphic	Monochrome Bitmap-graphics can be created with Paint for example, or other software
Print image storage	9 print images for a direct print start, unlimited number for print start via Ethernet / EIA232 / USB-stick
Print image length	13.500 Pixel = 0,975m at 360dpi
Storage in GB (optional expandable)	4
RAM in MB	32
Max. print speed in m/min Print Basic Advanced Pro Ultimate	 30 30 60 90 150
Print direction	L/R or R/L, from top or side. Print from bottom is **not** possible

[1)] Not available in all Markoprint integra PP 108 bicolor versions

Connections:	
External Sensor	1x
Internal Sensor	-
Encoder	1x
Status / Alarm outputs	4x
Potential free contacts	-
Inputs	4x
USB A for USBB-Stick	+
USB interface	-
EIA232	+

System versions:	Print	Basic	Advanced	Pro	Ultimate
Layout length in m			0,97		
Text	+	+	+	+	+
Counter	-	-	+	+	+
Time	-	+	+	+	+
Date	-	+	+	+	+
Date offset	-	-	+	+	+
Logos	+	+	+	+	+
Variables	-	-	mit HMI	mit HMI	mit HMI
Action fields	-	-	+	+	+
Barcodes	-	-	+	+	+
2D Codes	-	-	-	+	+
USB-Stick Data transfer	+	+	+	+	+
Ethernet interface	+	+	+	+	+
EIA232	+	+	+	+	+
Password protection	-	-	-	-	+
Confgurable in-/outputs	+	+	+	+	+
DBPrint	-	-	-	+	+

New Splitter cable:



P1		P2		P3		P4	
PIN Nr.	Color	PIN Nr.	Color	PIN Nr.	Color	PIN Nr.	Color
1	BK	1	BK				
2	BN	2	BN				
3	RD	3	RD				
4	OG	4	OG				
5	YE	5	YE				
6	GN	6	GN				
7	BU	7	BU				
8	VT	8	VT	3	BL	3	BL
9	GY	9	GY				
10	WH	10	WH			4	BK
11	WH/BK	11	WH/BK	4	BK		
12	WH/BN	12	WH/BN				
13	WH/RD	13	WH/RD				
14	WH/OG	14	WH/OG				
15	WH/YE	15	WH/YE	1	BN	1	BN

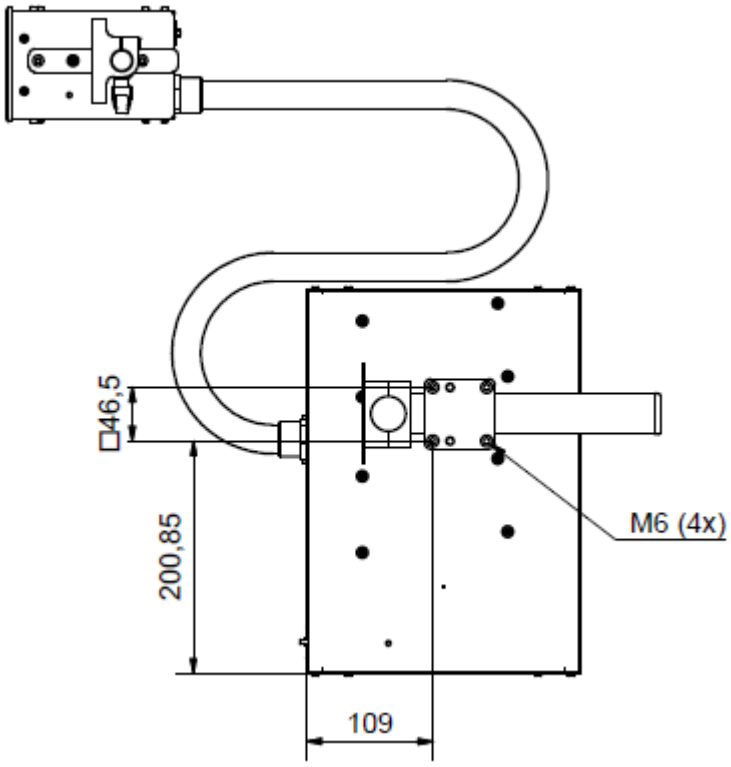
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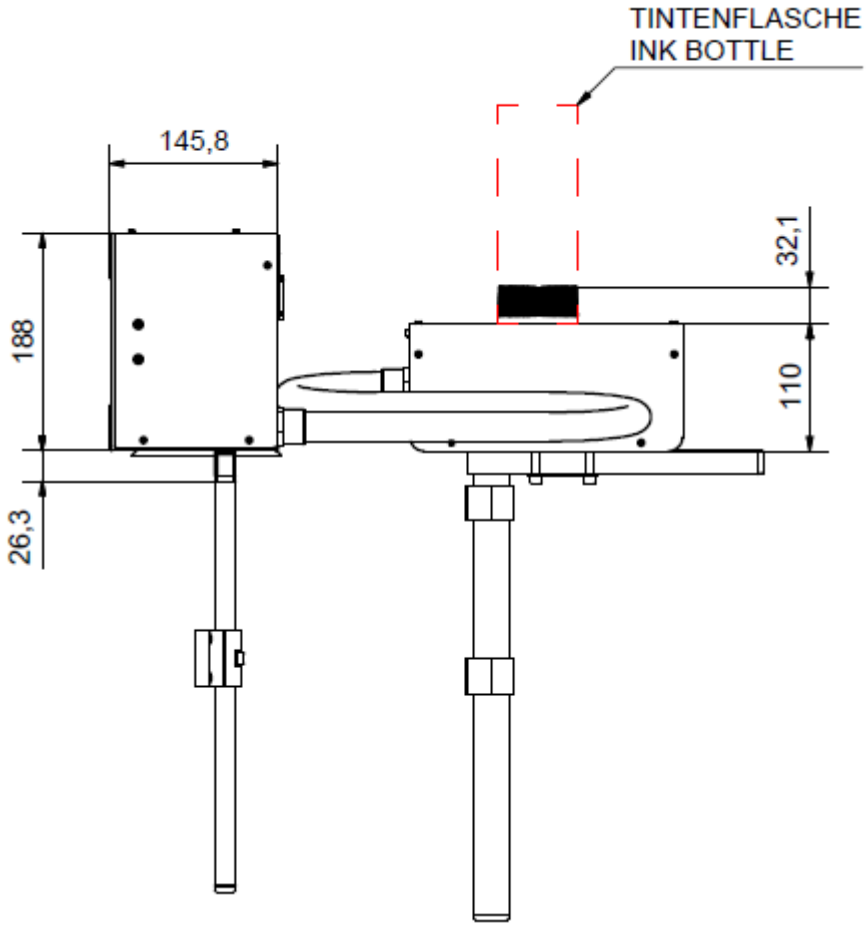
40102519	X1JET splitter cable for sensor, encoder, inputs and outputs

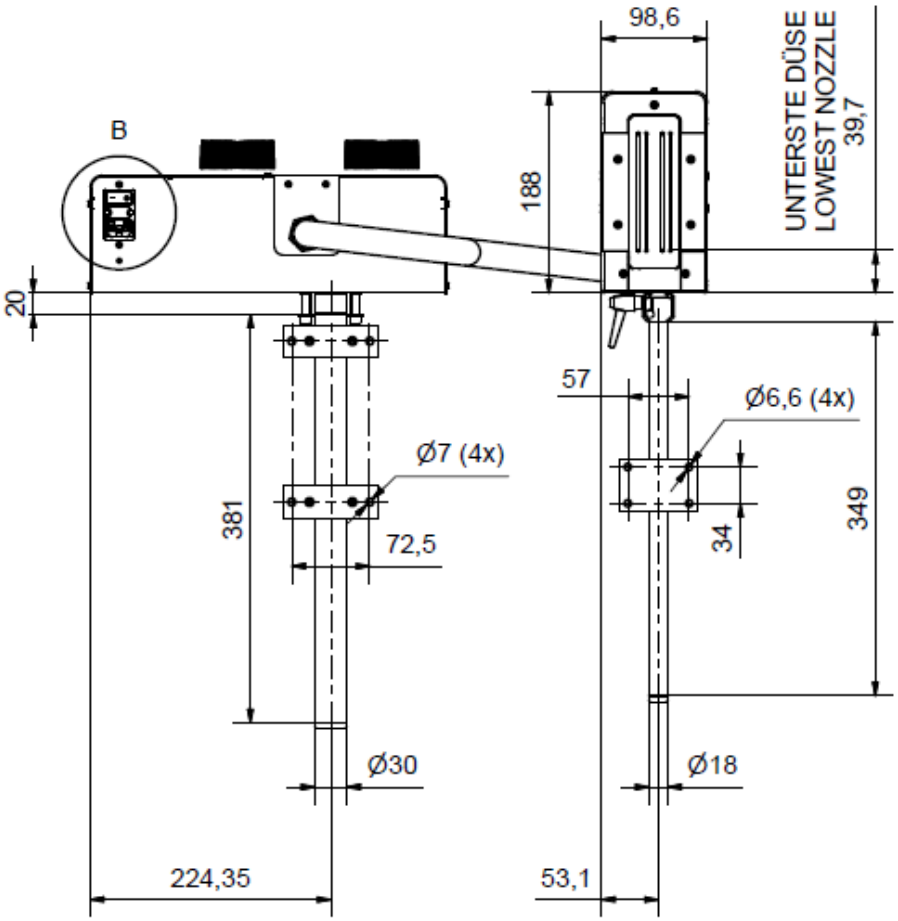
Other:

72800006	Adapter 15pin to 9pin EIA/RS 232
40055222	Y-cable 15pin D-sub male to 2x 15pin D-sub female 1000mm cable
40037993	Y-cable 15pin Sub-D male to 1x 15pin Sub-D female and 1x M12 female for HMI
40038349	Connection cable 15pin Sub-D plug to 1x M12 socket for HMI

Technical drawings integra PP 108 bicolor:






98,6
UNTERSTE DÜSE
LOWEST NOZZLE
39,7
B
188
20
57
Ø6,6 (4x)
Ø7 (4x)
381
72,5
34
349
Ø30
Ø18
224,35
53,1