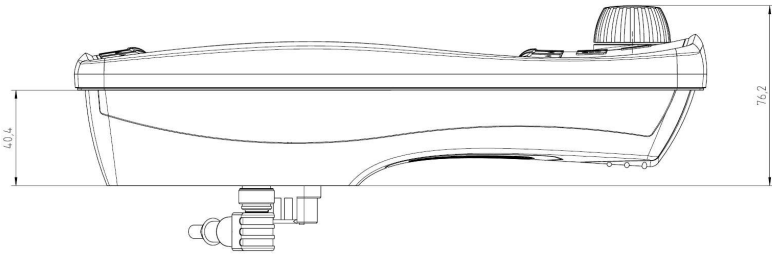
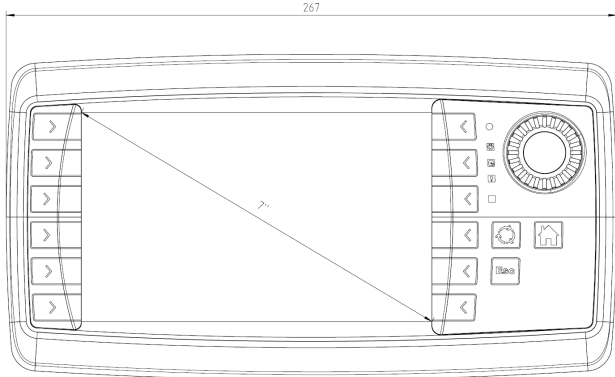
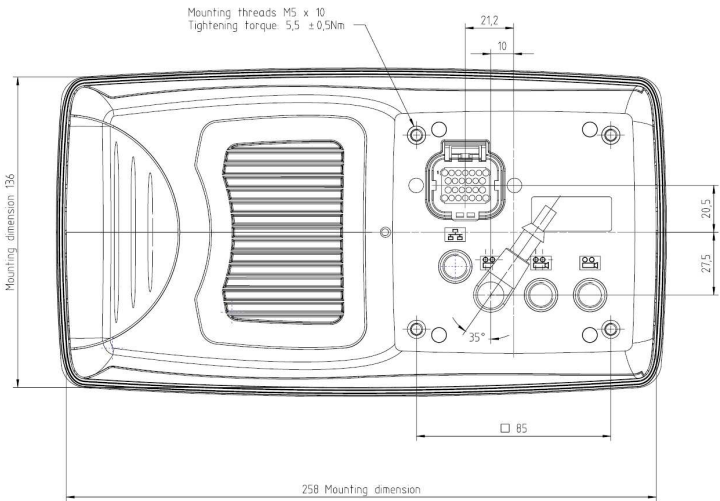


Technical Data Sheet
***digsy* _{HMI} 7 LB**

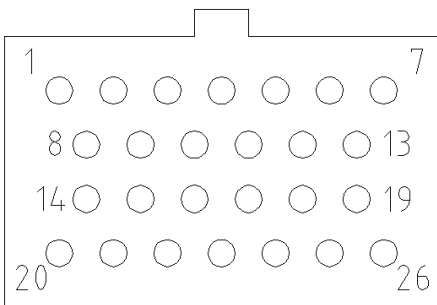
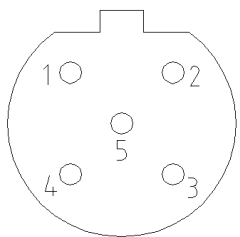
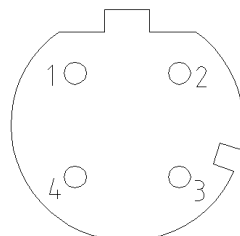


1 Order information	
Part number	4885.86.072
2 Mechanical	
2.1 Dimensions	
	
	

2.2 Housing	Plastic housing, coloured black, RAL 9005 with rubber frame, coloured charcoal-grey, RAL 7016
2.3 Mounting	• landscape or portrait • standalone • in-dash Mounting accessories (not included): • Build-in mounting frame, grey: 4305.86.071 • Standalone mounting adaptor, black: 4305.86.072
3 Display	
Type	TFT Colour Graphic LCD with LED backlight
Size	7", 152 mm (W) x 91 mm (H)
Resolution	800 x 480 pixel, (WVGA), 15:9
Colors	262k
Brightness	typ. 400 cd/m ²
Contrast Ratio	typ. 500:1
4 Input Devices	
4.1 Touch	-
4.2 Left Keypad	• 6 keys with tactile feedback • blue LED backlight • Lifetime 1.000.000 actuations
4.3 Right Keypad	• 6+3 keys with tactile feedback • blue LED backlight • Lifetime 1.000.000 actuations
4.4 Indicators and Sensors	• Light sensor • 1 Multicolour-LED • 2 Status-LED's
4.5 Encoder	• optical encoder with 16 mechanical detents and push function • lifetime: 1 million cycles
5 Electronics	
5.1 Processor platform	
CPU	Freescall I.MX35®, 532 MHz
Mass storage	512 MByte (approx. 450 MB for customer use)
RAM	128 Mbyte
RTC	buffered by gold cap
5.2 Buzzer	• 65 dB(A) in 30 cm distance • lifetime min. 1000h
5.3 Interfaces	
5.3.1 Power supply	
Operating voltage range	9 ... 36 V DC
Protection	short circuit protection
Overvoltage resistance	48V for 2 minutes
Inverse polarity protection	up to -48 V DC

Current consumption (without external load), max	Power Mode	current at 13,5 V DC	current at 27 V
	On	900 mA	500 mA
	Low-power	200 mA	120 mA
	Sleep	100 mA	65 mA
	Off	0 mA	0 mA
5.3.2 Can Interfaces	• 2 x CAN-Interfaces • ISO 11898, CAN-specification 2.0 B active, • up to 1 Mbit/s (default 250 Kbit/s, 500 Kbit/s, 750 Kbit/s and 1 Mbit/s)		
5.3.3 RS232	1 x RS232-Interface		
Type	EIA232 (only RxD, TxD, GND)		
Speed	max. 115 Kbps		
5.3.4 USB	Host 2.0		
Main connector	1 x Full speed		
5.3.7 Video-Interface	• analog video input, 1 Vss • camera control output (open drain) for special functionality (mirror, shutter, heating etc.), • ampacity 300mA @ 12V DC		
5.3.8 Ethernet-Interface	1 x 10/100 Mbit/s Base T		
6 Connections			
Main connector	Part no. connector set: 4305.86.001 Tyco-AMP 1437288-6 • Mating connector (customer) Tyco-AMP 3-1437290-7 • Mating crimp contact (customer) Tyco AMP 3-1447221-4		
Video connector	M12 round connector, female, 5-pole, B-coded acc. to EN 61076-2-101		
Ethernet connector	M12 round connector, female, 4-pole, D-coded acc. to EN 61076-2-101		
Connector pinout	see chap. 9.		
7 Software			
7.1 Operating System	Linux, kernel 2.6.28		
7.2 Application Programming	CODESYS-Tools (3.5)		
8 Testing and Verification			
8.1 CE-Compliance	EU Directive 2004/108/EC (EMC) according to • EN 12895: Industrial Trucks – Electromagnetic compatibility • EN 13309: Construction machinery – Electromagnetic compatibility of machines with internal electrical power supply • EN ISO 14982: Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria		
8.2 e1 - Type approval	EU Directive 72/245/EWG (Jan-2013)		
8.3 Protection Level (IP Code)	IP 6k5 according to ISO 20653: Road Vehicles – Degrees of protection (IP-Code) – Protection of electrical equipment against foreign objects, water and access		

8.4 Electrical Requirements	12 and 24V-Systems according to: • ISO 16750-2: Road Vehicles – Environmental conditions and testing for electrical and electronic equipment – Electrical loads • ISO 15003: Agricultural Engineering – Electrical and electronic equipment – Testing resistance to environmental conditions																																																																																	
8.5 Mechanical Requirements	• According to ISO 16750-3: Road Vehicles – Environmental conditions and testing for electrical and electronic equipment – Mechanical loads, Code L • ISO 15003: Agricultural Engineering – Electrical and electronic equipment – Testing resistance to environmental conditions - o Mechanical Shock: Level 2 - o Random Vibration: Level 2 - o Sinusoidal Vibration: Level 2																																																																																	
8.6 Climate Requirements	• According to ISO 16750-4: Road Vehicles – Environmental conditions and testing for electrical and electronic equipment – Climatic Loads - o Operating Temperature Range: -30 ... +65°C - o Storage Temperature Range: -40 ... +85°C • ISO 15003: Agricultural Engineering – Electrical and electronic equipment – Testing resistance to environmental conditions																																																																																	
9 Pinout																																																																																		
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