

+	DC24V [+]	Power supply DC24V [+]
+	DC24V [+]	Power supply DC24V [+]
-	DC24V [-]	Power supply DC24V [-]
-	DC24V [-]	Power supply DC24V [-]
A	RS485 [A]	Communication bus RS485 [A]
A	RS485 [A]	Communication bus RS485 [A]
B	RS485 [B]	Communication bus RS485 [B]
B	RS485 [B]	Communication bus RS485 [B]

+	DC24V [+]	Terminal power supply DC24V of Smartswitch, polarity [PLUS]. The free [PLUS] [+] terminal can be used to supply power to a continuous Smartswitch.
-	DC24V [-]	Terminal power supply DC24V of Smartswitch, polarity [MIN]. The free [MIN] [-] terminal can be used to supply power to a continuous Smartswitch.
A	RS485 [A]	Terminal RS485 communication bus, signal line [A].
B	RS485 [B]	Terminal RS485 communication bus, signal line [B].

EC sensor	
Product code	21250255
Product description	EC-Sensor 4K7 NTC FertiMix Go!
Cel constant	1,0 [cm ⁻¹]
Temperature element	NTC3k
Flow sensor	
Product code	04004000
Product description	F15 flowmeter P51530-P0

Location	LED status	Status Smartswitch control
PCB [1]	Green continuously	Smartswitch connection with touchscreen controller is active. Smartswitch control is inactive.
	Green blinking	Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is inactive.
	Red continuously	Smartswitch connection with touchscreen controller is inactive. Smartswitch control is inactive.
	Red blinking	Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is active.

01	NA	Not available
02	NA	Not available
03	NA	Not available
04	NA	Not available
05	IN_P	Input pulse
06	NA	Not available
07	DC24V	DC24V [+] [common FET outputs]
08	DC24V	DC24V [+] [common FET outputs]
09	OUT_D3	Output FET 3
10	OUT_D1	Output FET 1
11	OUT_D4	Output FET 4
12	OUT_D2	Output FET 2
13	GND	GND measurements [IN_P], [IN_D1], [IN_D2]
14	GND	GND measurements [IN_P], [IN_D1], [IN_D2]
15	NA	Not available
16	NA	Not available

07	24V	Field Effect Transistor [FET] for switching the power stage of a fertilizer dosing valve, dosing valve 1. The output switches to GND.
08	OUT_D1	
07	24V	Field Effect Transistor [FET] for switching the power stage of a fertilizer dosing valve, dosing valve 2. The output switches to GND.
08	OUT_D2	
07	24V	Field Effect Transistor [FET] for switching the power stage of a fertilizer dosing valve, dosing valve 3. The output switches to GND.
08	OUT_D3	
07	24V	Field Effect Transistor [FET] for switching the power stage of a fertilizer dosing valve, dosing valve 4. The output switches to GND.
08	OUT_D4	
05	IN_P	Pulse input for the signal of a flow sensor, that registers the shifted amount of fluid in the main pipe of a watersupply system.
13	GND	

17	R_B2	Input temperature B2 [high]
18	R_B1	Input temperature B1 [high]
19	R_A2	Input temperature A2 [low]
20	R_A1	Input temperature A1 [low]
21	EC_A2	Input EC A2
22	EC_A1	Input EC A1
23	EC_B2	Input EC B2
24	EC_B1	Input EC B1

18	R_B1	Analog input for the signal of the temperature sensor of EC sensor 1.
20	R_A1	
22	EC_A1	Analog input for the signal of the conduction element of EC sensor 1.
24	EC_B1	
17	R_B2	Analog input for the signal of the temperature sensor of EC sensor 2.
19	R_A2	
21	EC_A2	Analog input for the signal of the conduction element of EC sensor 2.
23	EC_B2	



PROJECT NAME: HortiMax Go				STATUS: PUBLISHED
SUBJECT: DATASHEET				AUTHOR: MBL
PROJECT NUMBER: PD15.003	SCALE: 1 : 1	UNIT: mm	INITIAL DATE: 01/01/2017	AUTHORISED: AKO
FILE CODE: 170049	TYPE: DRA	VERSION: 010	COUNTRY: 044	REVISION DATE: 01/05/2017
FILE NAME: Datasheet 20801510 SSW EC control [4xFE + 1xQU].vsd				PAGE: 1 OF 2

Commercial data	
Product code	20801510
Product description	SSW EC control [4xFE + 1xQU]
Packing unit	1
Weight	162,38 [g]
Custom tariff number	8537.10.91
Country of origin	NL (Netherlands)

Dimensions	
Width	107,6 [mm]
Height	89,6 [mm]
Depth	60,6 [mm]

Ambient conditions		
Degree of protection	IP20	
Ambient temperature (operation)	-10 ... 50 [°C]	14 [°F] ... 122 [°F]
Ambient temperature (storage/transport)	-20 ... 50 [°C]	-4 [°F] ... 122 [°F]
Permissible humidity (operation)	20 ... 85 [%]	
Permissible humidity (storage/transport)	20 ... 85 [%]	

General	
Mounting type	DIN rail mounting according to EN 60715

Power supply	
Supply voltage	DC24V
Current consumption max.	≤ 50 [mA], bij DC24V, bij 25 [°C]

Serial interface	
Interface 1	RS485
Connection method	Spring-cage connection
Transmission medium	2-wire Twisted-Pair + signal ground
Transmission length	500 [m]
Transmission speed	115,2 [kBit/s]

EC input	
Number of inputs	2
Measuring range	0,0 ... 10,0 [mS]


Pulse input	
Number of inputs	1
Measuring range	0 ... 1000 [Hz]

FET output	
Number of outputs	4
Switching function	Switches to GND
Switching current max.	100 [mA], at 24 [V], DC

Connection data	
Conductor cross section solid min.	0,2 [mm²]
Conductor cross section solid max.	2,5 [mm²]
Conductor cross section flexible min.	0,2 [mm²]
Conductor cross section flexible max.	2,5 [mm²]
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14

Standards and regulations	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Revisions				
Document	Date	Author	Action	Revision
170049DRA010 044	01/05/2017	Blokland, M.A.A.	Finalized	Final version.
170049DRA001 044	01/01/2017	Blokland, M.A.A.	Initial	Initial version.

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			UNIT:	mm	PAGE:	2 OF 2