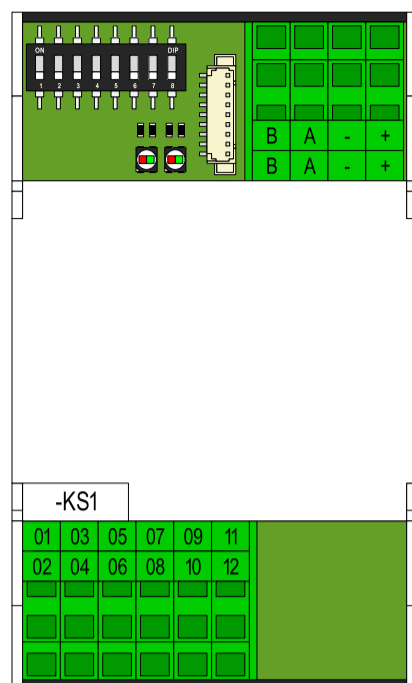


Image



Commercial data

Product code	20800400
Product description	Smartswitch 24-5103b[00]_0 Alarm + Meteo
Packing unit	1
Weight	0.095 [kg]
Custom tariff number	8537.10.91
Country of origin	NL (Netherlands)

Dimensions

Width	53.60 [mm]
Height	89.60 [mm]
Depth	81.00 [mm]

Standards and regulations

EMC	Conformance with EMC directive 2014/30/EU
RoHS	Conformance with RoHS directive 2011/65/EU
WEEE	Conformance with WEEE directive 2002/96/EC

Connection data

+	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]

01	NA	Not available
02	DC24V [+]	Power supply DC24V [+] [power for Meteo-Go]
03	NA	Not available
04	DC24V [-]	Power supply DC24V [-] [power for Meteo-Go]
05	NA	Not available
06	I_RS485 [A]	RS485 [A] [isolated]
07	NA	Not available
08	I_RS485 [B]	RS485 [B] [isolated]
09	REL_NO	Alarmrelay [NO]
10	I_RS485 [G]	RS485 signal ground [isolated]
11	REL_NC	Alarmrelay [NC]
12	REL_CO	Alarmrelay [Common]

Connection data, details

+	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].
A		
B	RS485 [B]	Terminal RS485 communication bus, signal line [B].
B		

09	REL_NO	Relay contact [dry change-over contact], for reporting an alarm situation to the outside world.
11	REL_NC	
12	REL_CO	

Ambient conditions

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

Terminal 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

General

Mounting type	DIN rail mounting according to EN 60715
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Supply voltage

Power supply	DC24V
Current consumption typically	≤ 100 [mA], at DC24V, at 25 [°C]

Data interface

Interface 1	RS485
Connection method	Spring-cage connection
Transmission medium	2-wire Twisted-Pair + signal ground
Transmission length max.	1200 [m] 1
Transmission speed	115.2 [kBit/s]

Interface 2	RS485 (isolated)
Connection method	Spring-cage connection
Transmission medium	2-wire Twisted-Pair + signal ground
Transmission length max.	1200 [m] 1
Transmission speed	9600 [Bit/s]

Relay output

Number of outputs	1
Contact configuration	Change-over contact
Switching voltage max.	24 [V], AC/DC
Switching current max.	1 [A], bij 24 [V], AC/DC
Service life electrical	10^5 operations

Notification

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.

Location	LED status	Status bus communication
PCB [2]	Green blinking	Smartswitch is receiving data over the bus [Rx].
	Red blinking	Smartswitch is transmitting data over the bus [Tx].

Weather station sensor

Product code	30517400	
Product description	Meteo Go weerstation	
[02] - DC24V [+]	[6] - Power supply in [+]	White
[04] - DC24V [-]	[7] - Power supply in [-]	Brown
[06] - I_RS485 [A]	[3] - Data [+]	Green
[08] - I_RS485 [B]	[4] - Data [-]	Yellow
[10] - I_RS485 [G]	[2] - Data_GND	Grey
GND cabinet	Shield	Bare

Remarks

1	Transmission length max.
The transmission length max. (i.e. Maximum length of the RS485 BUS-cable in the installation) of 1200 [m], only applies when a suitable RS485 Bus-cable type is utilized in the installation.	
General specification for RS485 BUS-cable:	
<ul style="list-style-type: none"> • Suitable for bus systems based on RS485, • Twisted pair(s), • Shielded, • Characteristic impedance 120 [Ohm]. 	
Recommended cable types:	
32002810 Buskabel UNITRONIC BUS LD 2x2x0.22 100 [m]	
32002811 Buskabel UNITRONIC BUS LD 2x2x0.22 300 [m]	
32002812 Buskabel UNITRONIC BUS LD 2x2x0.22 500 [m]	
32002820 Buskabel UNITRONIC BUS LD 3x2x0.22 100 [m]	

Schematic

