FIWRE-S-PDS

BOX*

BOX + DIN35-LOCK*

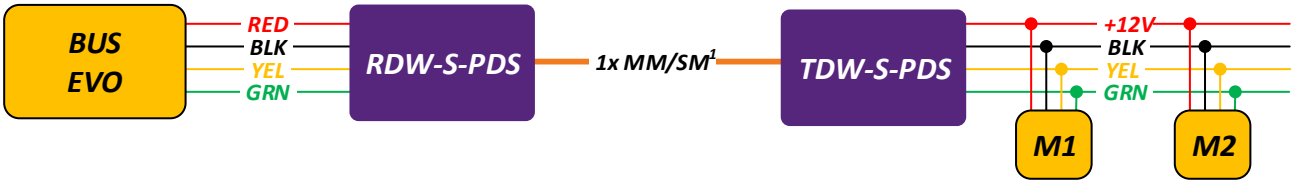
- Digital modulation
- 1x SC/PC optical port
- 2x data BUS
- 1x relay LOCK NO/NC
- Overvoltage protection
- Current limiter in supply
- Working temperature from – 40°C to +70°C

ORDERING NAME	CODE	SUPPLY
FIWRE-S-PDS*	1-004-290	10-20VDC**
TDW-S-PDS-BOX/12*	1-504-290	10-20VDC**
RDW-S-PDS-BOX/12*	1-604-290	10-20VDC**
* holders for mounting to DIN35 included		
** BUS supply		

Connection to the KEYBUS bus of DSC POWER system compatibility

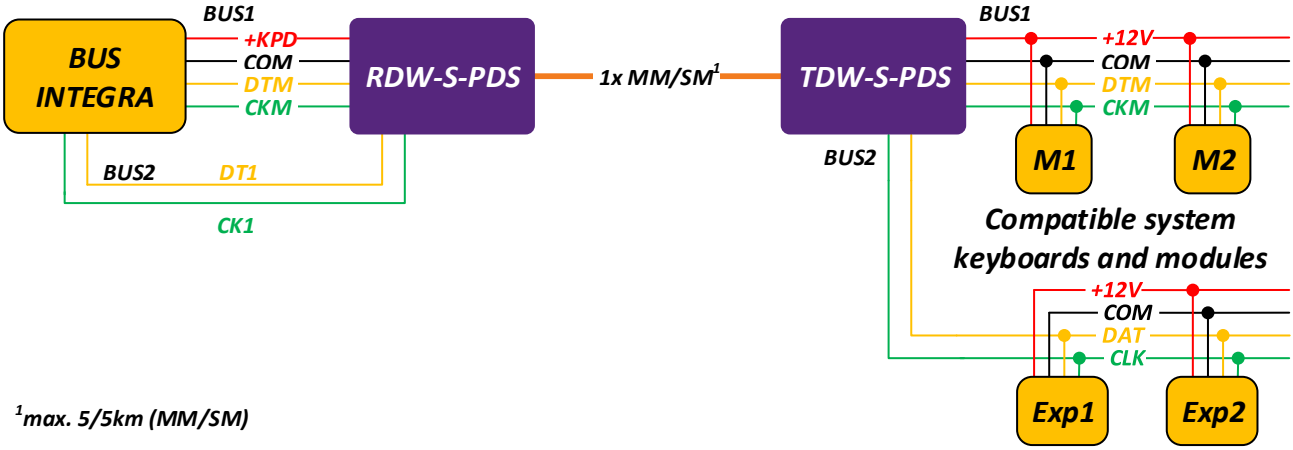
system keyboards and modules

Connection to the BUS bus of PARADOX EVO system compatibility



system keyboards and modules

Connection to the bus of SATEL INTEGRA system compatibility



[1]max. 5/5km (MM/SM)

Description and technical parameters

compatibility

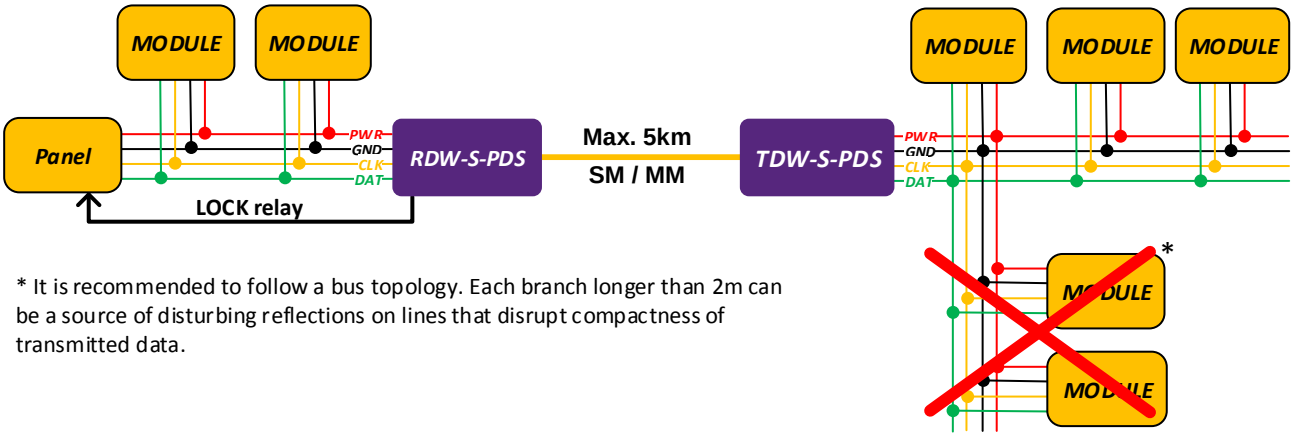
This optic fiber converters for transmission of system buses of alarm systems :

- DSC POWER,
- PARADOX EVO,
- SATEL INTEGRA.

	Parameter	Value	Unit	Note
BUS	Overvoltage protections	600	W	pulse 10/1000 µs
Optics	Output optical power	–14 to –8 / –10 to 0	dBm	SM / MM
	Sensitivity	–31	dBm	SM / MM
	Optical fibres	1x SM 9/125 - SC connectors	µm	grinding PC
		1x MM 50(62.5)/125 - SC conn.	µm	grinding PC
Optical range	DSC POWER	5	km	SM / MM
	PARADOX EVO	5	km	SM / MM
	SATEL INTEGRA	5	km	SM / MM
	ATTENTION: class 1 LASER PRODUCT COMPLIES WITH 21 CFR 1040.10 and 1040.11 DEN 60825-1-1E			
LOCK Relay	RDW	NO/NC contact with max. 125VAC/0.5A or 60VDC/0.3A		
		NO contact closed = communication OK		
Power Suply	Voltage	10-20	VDC	from bus
	Current at 12VDC	Max. 100	mA	
	Protections	overvoltage / current		600W-pulse 10/1000 µs/reversible
Environment	Operational range	–40..+70	°C	temperature of environment
	Humidity	max. 95 (non-condensing)	%	
Mechanical	Dimensions - w / h / l	110 x 97 x 30 (37)	mm	(with DIN holder)
Parameters	Weight	typ: 0.2	kg	
The producer retains the right to change any technical parameters without previous announcement.				

Recommended topology

compatibility

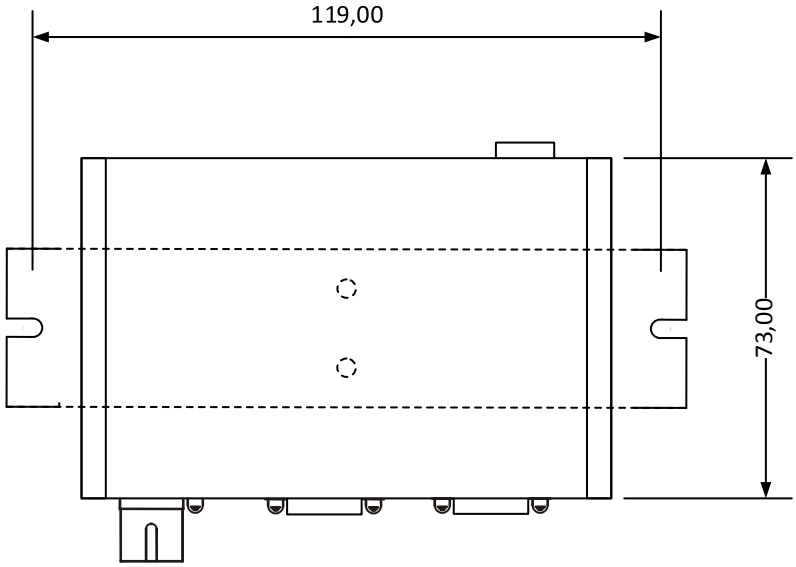


* It is recommended to follow a bus topology. Each branch longer than 2m can be a source of disturbing reflections on lines that disrupt compactness of transmitted data.

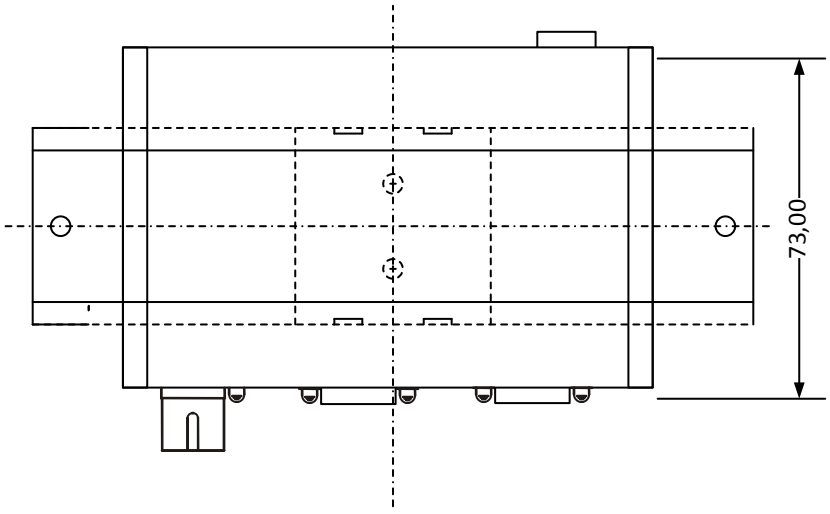
Dimension

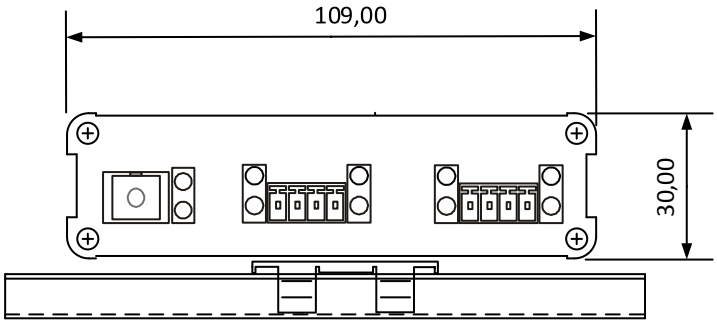
universality

xDW-S-PDS



xDW-S-PDS + DIN35-LOCK

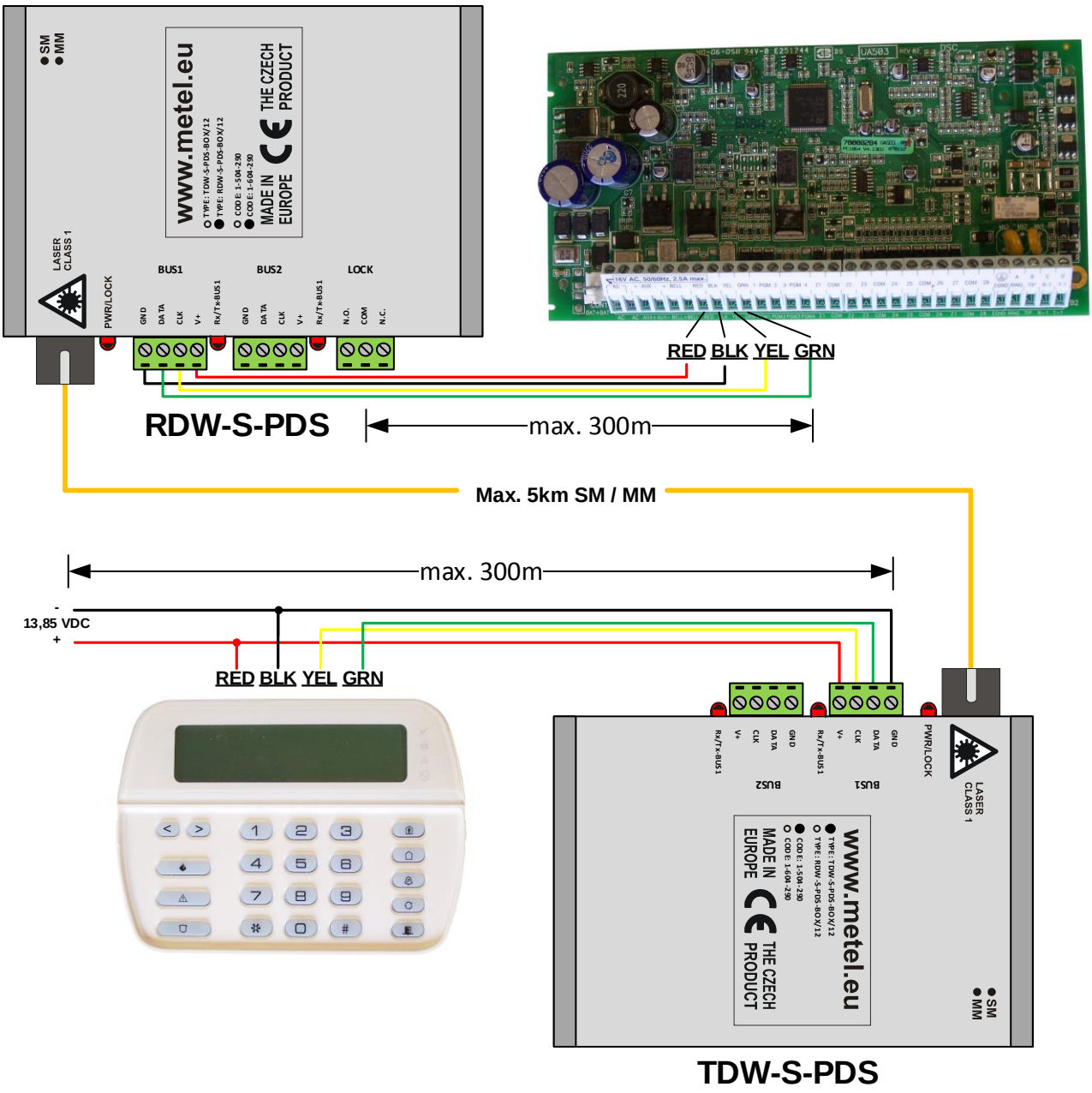




REVIZE: 201602 – Pre-production version
201603 – Production version

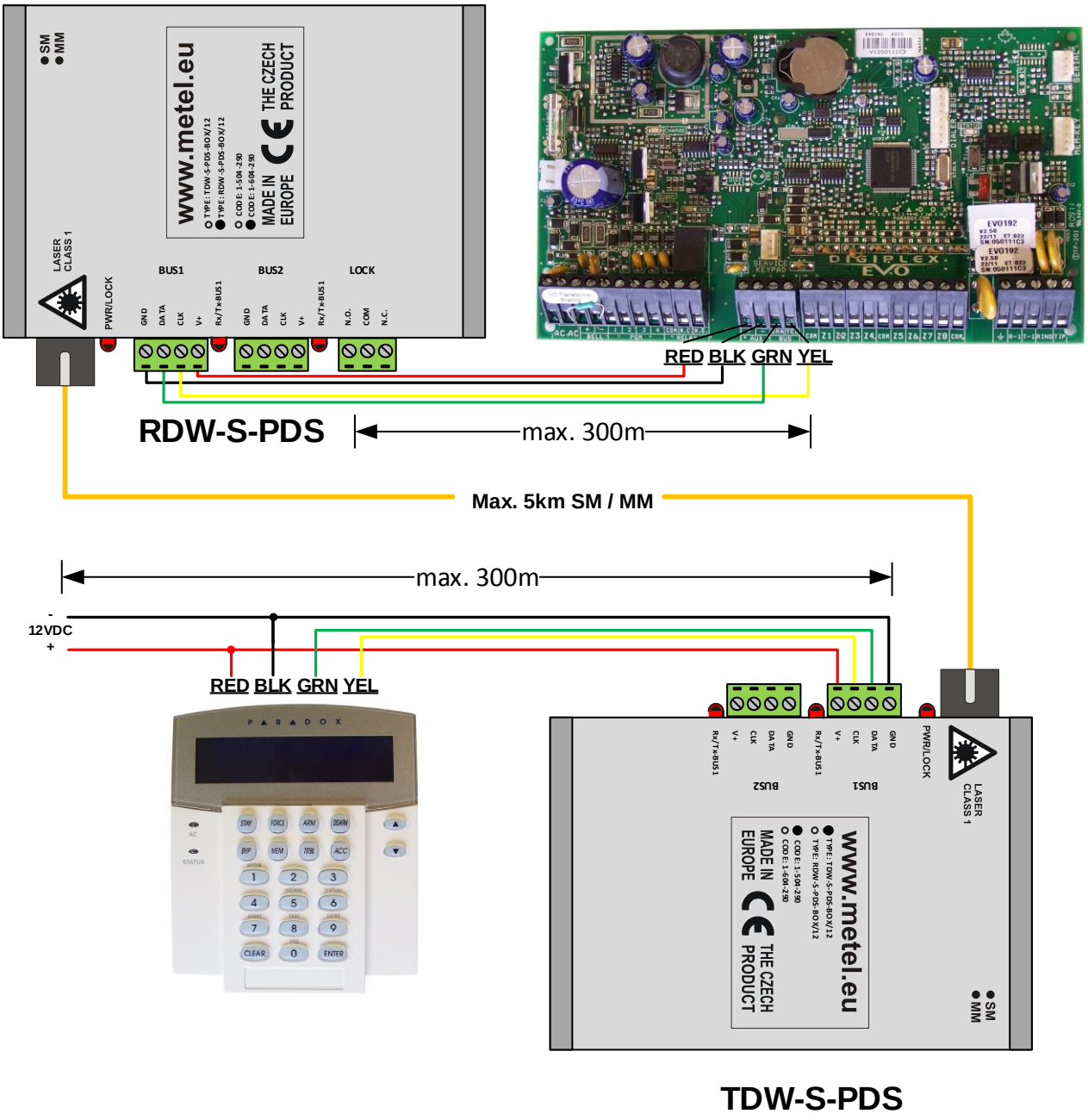
Connection to the KEYBUS bus of DSC POWER system

compatibility



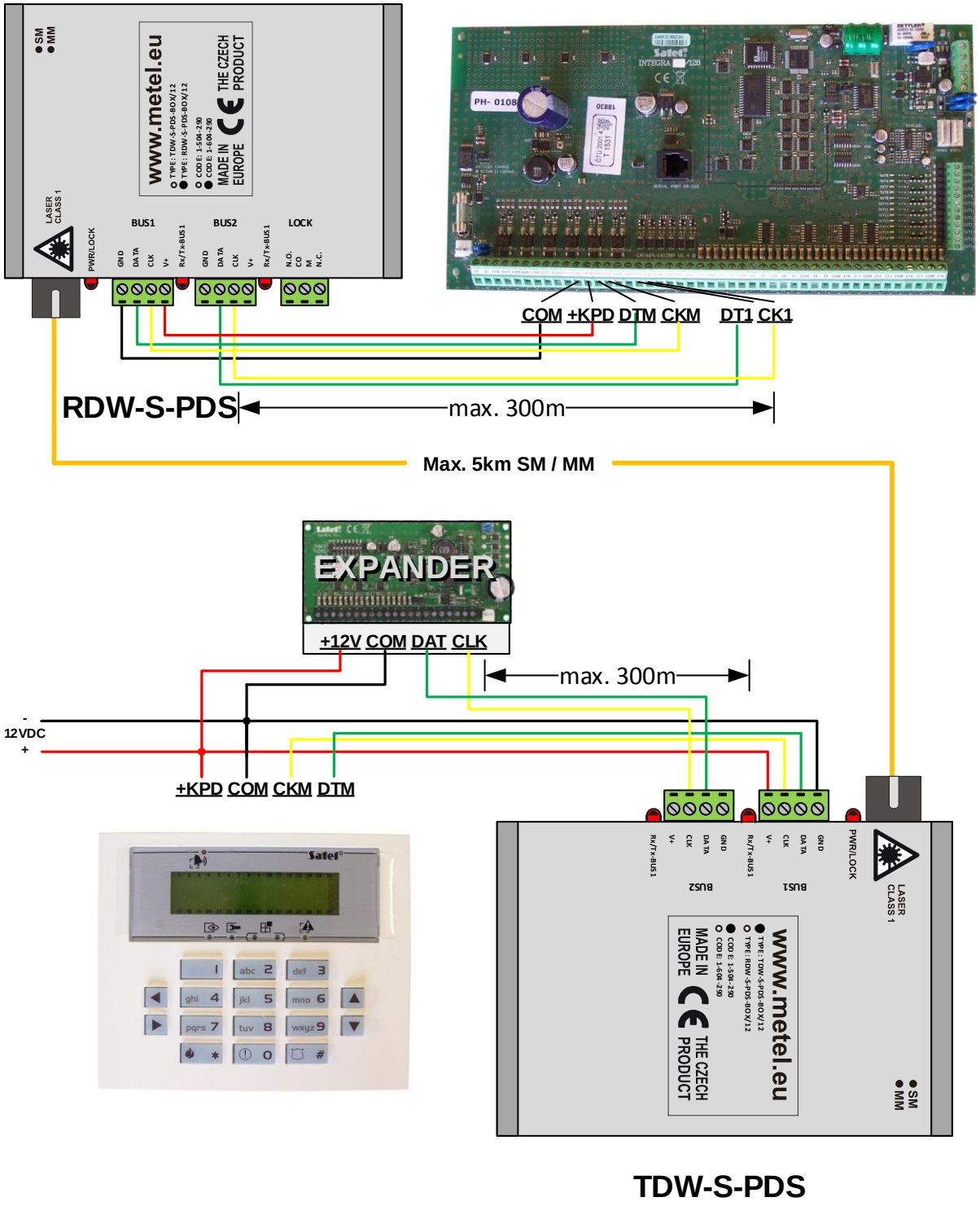
Connection to the BUS bus of PARADOX EVO system

compatibility



Connection to the bus of SATEL INTEGRA system

compatibility



Quick Installation Manual REV:201603

FIWRE-S-PDS

Optoconverters DSC POWER, PARADOX EVO, SATEL INTEGRA buses

1. **Mounting**
   Place RDW-PDS to the side of the alarm system.
   Place TDW-PDS to the side of modules (keyboards, modules...).
   Mount the converters to either flat surface or DIN35 rail.

2. **Connect supply**
   12VDC between V+ and GND terminals. Connection of the supply is indicated by the yellow LED POWER switching on.

   Overvoltage protections are grounded through the GND terminal.

3. **Connect optic fiber**
   terminated by a SC connector (grinding PC). After interconnection of TDW-PDS and RDW-PDS LED LOCK switches off. The length of the optical fiber is max. 5km for both SM and MM fiber. Using of more length is not recommended.

4. **Connect signal wires**
   Proceed according to the type of alarm system with the pictures on the previous pages.
   Connect the data lines from the alarm system to TDW-PDS to terminals DATA and CLK.

5. **Indications**
   LED PWR - by switching on detects supply
   LED LOCK - by switching on detects relay closure
   - by switching on detects optics interruption
   - by switching on detects failure of a remote device
   LED Rx/Tx1 - data line
   - red LED Tx blinking – data transmission
   - green LED Rx blinking – data reception
   LED Rx/Tx2 - data line
   - red LED Tx blinking – data transmission
   - green LED Rx blinking – data reception