



T DASH Mini **USER MANUAL**





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INTRODUCTION

Congratulations on the purchase of your T DASH Mini product!

The T DASH Mini is an additional external display for the MYLAPS X2 Racelink. It is primarily used for on-board flagging and shows all flags that are supported by the MYLAPS X2 Race Control system.

The small form factor of the T DASH Mini makes it especially suitable for motorcycles, formula cars and karts.

Depending on your timing and Race Control service provider, the T DASH Mini can also display extra information supplied by Race Control, such as official timing results.

Features

- 2.25" high-brightness full-color 76 x 284 TFT display
- Rugged aluminum housing with potted electronics (IP67)
- Plug & play M8 connection with the MYLAPS X2 Racelink Club
- Compatible with the X2 Race Control Server API
- Official results & Race Control messages
- Pit lane timer

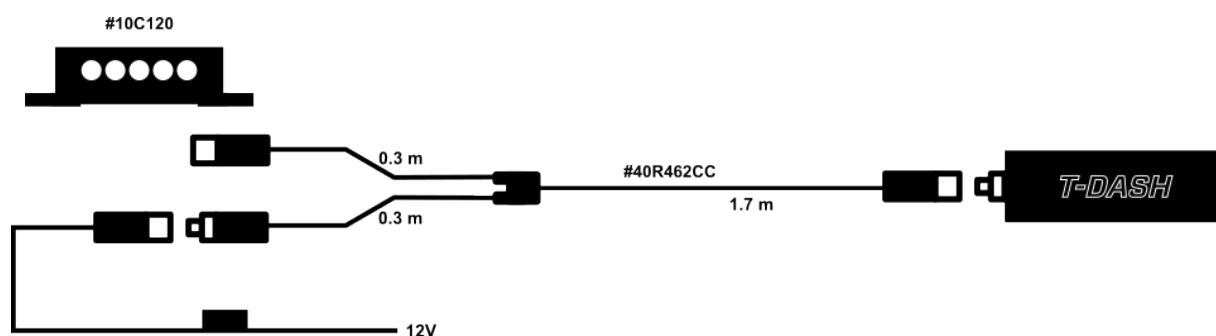
Accessories (not included)

Required when using a Racelink Club:

- Racelink Club, MYLAPS #10C120CC
- M8 Y-connection cable, MYLAPS #40R462CC

INSTALLATION

Connection diagram

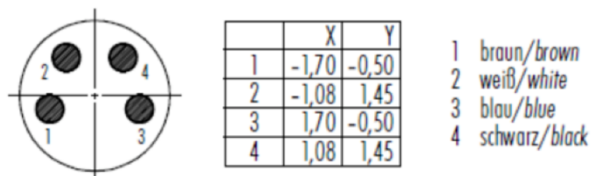


- Make sure your organization configures your Racelink Club to use an external flagging display instead of the Racelink Club LED bar
- Always use a fused power supply coming from the switched main power.



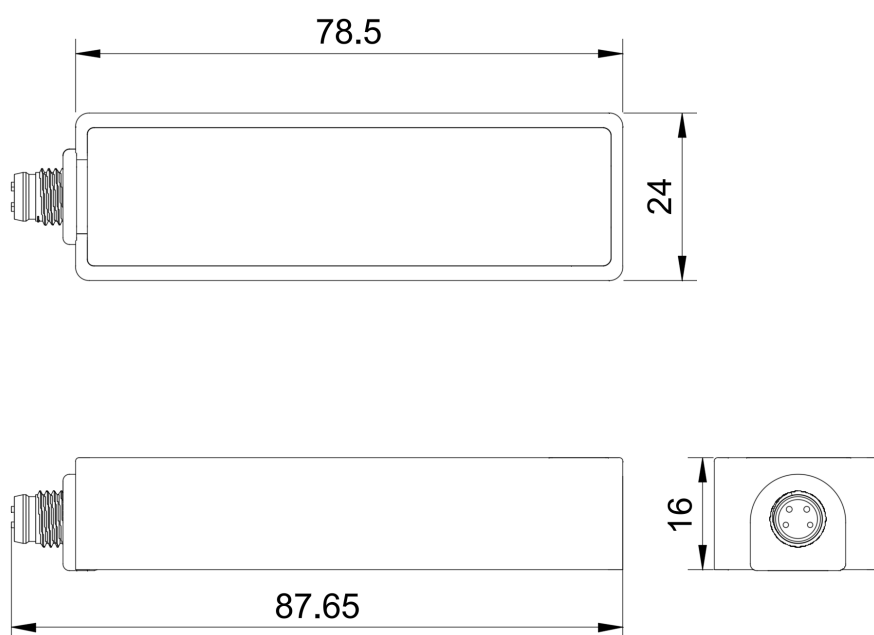
M8 connector pin-out

M8 circular sensor connector, e.g. Binder 718 series



Brown wire = 12VDC
Blue wire = Ground
Black wire = CAN high
White wire = CAN low

Measurements



Dimensions are in mm

Do's & Don'ts

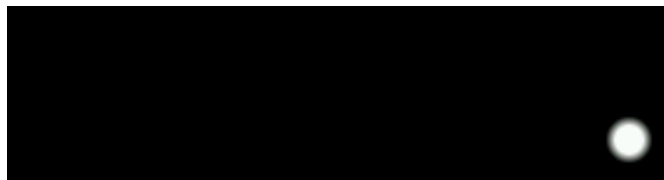
- Install the T DASH Mini with the connection on the right-hand side
- Install the T DASH Mini in the cockpit at a position where the driver has a good view of it in all racing conditions
- Make sure the T DASH Mini is securely mounted; for example, use 3M Dual Lock SJ3551CF. Degrease the mounting surface well before applying the 3M Dual Lock
- Do not install the T DASH Mini in direct sunlight, as this reduces display readability
- Do not install the T DASH Mini where it is exposed to water spray in wet racing conditions, as this reduces display readability



FLAGGING

Clear flag

The T DASH Mini will show each flag sent by Race Control. In normal race conditions this means it will show a 'clear' flag indicated by a white dot in the lower right-hand corner.



When Race Control also provides official results, the T DASH Mini will show the latest result received a few seconds after the clear flag was received.

Flagging interrupted

When the Racelink has not received a flag from Race Control for 5 seconds, for example in an RF dead zone or when the X2 link is not active, it sends 'flag await' (flag ID 0). The T DASH Mini then shows FLAG AWAIT (not blinking) until the next flag is received. This requires the Racelink setting 'use external flagging display'.



If the T DASH Mini does not receive any flag message for 5 seconds, for example when the Racelink is disconnected, the flag situation is unknown and the T DASH Mini shows a blinking ERROR NO FLAG warning.



Please be aware that as long as the link is not available, the flag situation on your T DASH Mini cannot be guaranteed!



**Always observe the marshal posts and personnel around the track.
Pay extra attention to the marshal posts in the above situations or when the T DASH Mini does not show any information!**

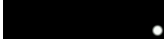
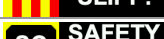
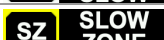
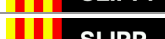


Supported flags

The T DASH Mini supports flags that are standardized by the FIM and/or are common for motorcycle racing.

If Race Control sends a flag ID that is not supported by your T DASH Mini, it will show the flag ID number only.

All flags blink when received and turn static after 2 seconds. Flags with a second frame keep blinking. Flag await (flag ID 0) does not blink.

Flag ID	Flag name	Frame 1	Frame 2
0	Flag await		—
1	Clear (no flag)		—
2	Yellow		—
3	Double yellow		
4	White		—
5	Green		—
6	Blue		—
7	Red		—
8	Oil / Slippery		—
9	Safety car		
15	Pit entry closed		—
16	Blue		—
17	Standing start		—
18	Rolling start		—
19	Mechanical		—
20	Behavior		—
21	Black		—
22	Checkered		
23	Next slow		—
24	Slow zone		—
25	Rain (FIM)		—
26	Rain + slippery (FIM)		
31	Yellow + slippery (FIM)		
32	Double yellow + slippery (FIM)		
33	Yellow (static track panels)		—
34	Yellow + attention border		
35	Green (static track panels)		—
36	Blue (static track panels)		—
38	Oil / Slippery (flashing track panels)		—
39	Oil / Slippery + attention border		



Flag ID	Flag name	Frame 1	Frame 2
40	Red (static track panels)	 RED	—
41	Black/BF (static track panels)	 BLACK FLAG	—
42	Black/BF (flashing track panels)	 BLACK FLAG	—
61	Flashing SC (Asia style)	 SAFETY CAR	 SAFETY CAR

MESSAGING

Supported messages

The T DASH Mini supports standardized messages that are common for motorcycle racing. Messages are text only, can differ in font color and background color, and may contain a parameter.

If Race Control sends a message ID that is not supported by your T DASH Mini, it will show the message ID number only.

Message ID	Message	Example	Parameter 1	Parameter 2
0	Track Limits		Turn no.	No. of violations
1	Ride Through Penalty		—	—
2	Long Lap Penalty		—	—
3	Double Long Lap Penalty		—	—
4	Drop Positions		No. of positions	—
5	Go To Pit		—	—

Please note that in the above examples, the font and/or background color may differ.

TIMER

Race Control can show a timer on the T DASH Mini. This can be used as a pit lane timer showing the 'Time in pit'. For example, if the timer is set to 2 minutes at pit entry, the timer color changes from red to green after 2 minutes, indicating that the minimum pit stop time has been reached.





RESULTS

Depending on your timing service provider, official results may be distributed via the Race Control system. If this service is provided, the information below may be available.



The examples above show result screens. They display your position in the race or qualifying session and your last lap time.

For the official results, the same color coding is used as in high-end racing series:

- Yellow font = worse than previous
- White font = better than previous
- Green font = personal best
- Purple font = overall best

DRIVER ID

When a Driver ID system is in place on the same CAN bus as the T DASH Mini, the T DASH Mini will show any driver ID change.





SCREENSAVER

The T DASH Mini will show a screensaver when the connected Racelink has not moved for an extended period of time and no other inputs are received.

SPECIFICATIONS

Dimensions	78.5 x 24 x 16 mm
Weight	approx. 60 g
Operating voltage range	7–16 VDC (12 VDC nominal)
Power consumption	approx. 1 W, 0.08 A max. @ 12 V
Operating temperature range	–20 to +70 °C
Ingress protection	IP67, with cable connected
Humidity range	10% to 90% relative
Display	Full-color 76 x 284 IPS TFT 15 x 55 mm view with 120° (H) x 70° (V) viewing angle 600 nits maximum brightness
CAN termination	120 Ω
CAN baud rate	1 Mbit/s



HANDLING PRECAUTIONS

1. Since the display window is made of glass, avoid mechanical impacts such as dropping the device.
2. Do not apply pressure to the display window surface, as this may damage it.
3. Clean a dirty display window with a dry cloth only. Never use solvents, as they will damage the display window.
4. If the display window is covered in dirt such as soil, first remove it with tape (e.g. Scotch mending tape 810) before cleaning the display window with a dry cloth. This helps avoid scratches on the surface of the display window.

Failure to observe the above precautions may void the warranty.

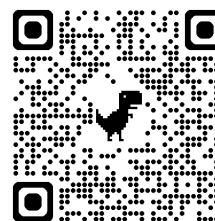
DISCLAIMER

This product has been designed with the utmost care. However, TMS Products B.V. under no circumstances accepts any liability whatsoever for damage or injury resulting from or arising out of the use of this product.

We make every effort to provide correct and up-to-date information about our products; however, no liability is accepted for incomplete or incorrect information in this manual.

This product is designed, among other things, to improve safety in motorsport. However, it is only an aid to the user and, when everything is fully functional, may make the situation on a track safer. The user remains responsible for their own safety at all times and cannot hold TMS Products B.V. liable in case of malfunction of the product or the products linked to it.

The sale of products described in this publication is subject to the TMS Products B.V. Terms and Conditions, which can be found by scanning this QR code:



Always keep observing the marshal posts and personnel around the track!



FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and*
- (2) this device must accept any interference received, including interference that may cause undesired operation.*

To comply with FCC RF radiation exposure limits for the general population, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20 cm is maintained between the radiator (antenna) and all persons at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

T DASH Mini **FCC ID: 2BLBWTDSh**

The FCC ID is shown for a few seconds at power-up of the T DASH Mini.
To view the FCC ID code again, power cycle the T DASH Mini.



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