

USER'S GUIDE

TINYZ-C

INTRODUCTION

This note contains all the instructions and precautions for a safe set up and an optimal use of the product. Warning: we are not responsible if any of these items below would not be respected and in this case, the TPL Vision's warranty shall not apply anymore to this product.

PRECAUTIONS FOR USERS AND CONSUMERS

Class III light

IP xx product (see product's documentation)

Operating temperature 0°C à 40°C

Power supply 24VDC+/- 10%, failure to observe this order may cause a deterioration of the product and a shock hazard to the user

Observe the power supply voltages and terminal connection

Do not modify the product even partially.

Do not clean while operating

Do not cover with a heat insulation or do not lock in a sealed enclosure

Do not stare at the beam and observe this following instructions:

- Interpose, insofar as the workstation allows it, a filter to block the product's light radiation under a fixed frame or adjustable between the source and the operator
- When the implementation of these arrangements is not possible, provide to operators glasses or an adequate protection mask allowing to block the lighting radiation.
- Prohibit or restrict as possible direct access to the light source (exposure in the axis of radiation)
- Establish a security perimeter to prevent operators from approaching the source at distances beyond the nominal ocular hazard recommended by the manufacturer
- In any case, ensure that the used means mitigate properly exposure scale (Choose screens or glasses characteristics according to the wavelengths wich operators are exposed).

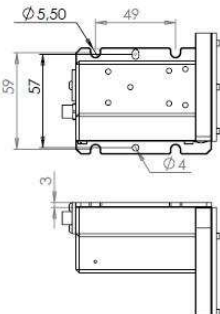


PACKAGING / PACKING / RECEIVING

The product is packaged in our factory using boxes and packages appropriated to transport it and studied to avoid any damages by means of regular transportation. However a damaged parcel should be reported to the carrier upon receipt and stated officially at its reception (as a "reserve"). Also, please report by writing to the company TPL VISION as soon as possible. (Within 24 hours after the package reception). Any damaged package during transportation will not be taken back or replaced if it has not been reported on the travel voucher and reported to TPL VISION on time.

When opening the bag containing the product, any cutting blade should be avoided so as not to damage the product.

All accessories included in the package must be used if necessary (do not use other products or equivalent to replace the accessories supplied).



2 holes diameter 4 for locating
4 mounting holes for CHC M5x6

To fix the braid, connect to one of the mounting screw

INSTALLATION PROCEDURE

Lighting shall not be implemented while the product is powered on.

For the screws selection (not included) respect the indications.

Recommended torque: 0.5 to 1.5 Nm (Using LOCTITE 243 (not supplied) is recommended)

ELECTRICAL CONNECTION

- 1- Turn off overall system 24 VDC power supply
- 2- Make all connections (power off) regarding diagram(s) below:

CLEANING (PRODUCT TURNED OFF):

- Use a soft, dry cloth.
- Do not use solvents or chemicals.
- Do not use abrasive cleaning product.

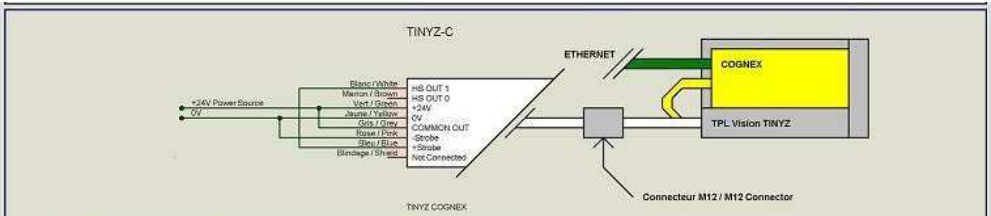


Fig 1 - Câblage pour le Mode Stroboscopique Insight / Insight Strobe Mode Wiring

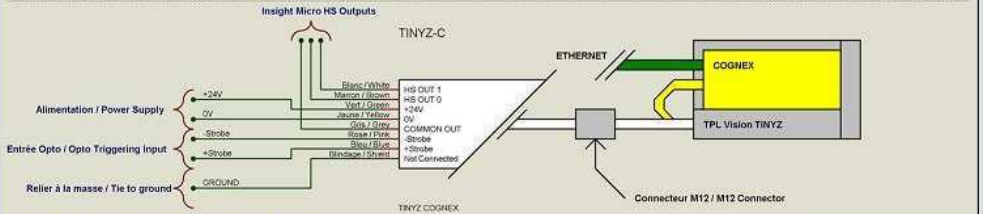


Fig 2 - Câblage général / General Wiring Scheme

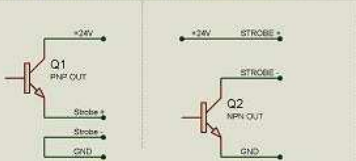


Fig 3 - Câblage Entrée Optocoupleur / Opto Input Wiring

QC	
Création	<input checked="" type="checkbox"/>
Validation Client	<input type="checkbox"/>
Bon pour exécution	<input type="checkbox"/>



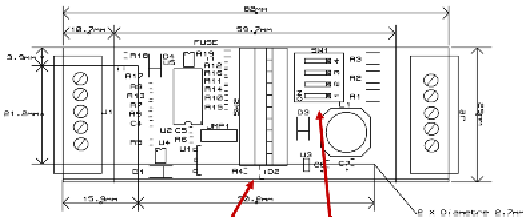
PROJET : Plan Câblage TinyZ C

Dessiné par : JB Hubert le 12/01/2010

Approuvé par :

Rev : A

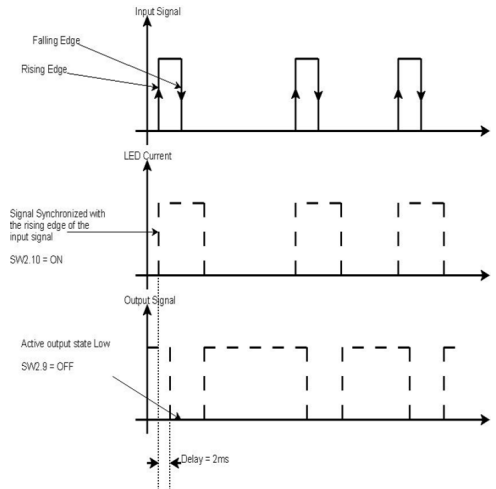
Feuille : 1/1



SW2 Selection UP / DOWN				Pulsé à la	Commande à l'état
U	D	U	D		
ON	ON	U	D	YES	3800 µs
ON	ON	D	U	YES	7500 µs
ON	ON	X	X	NO	1300 µs

SWITCH N°2 :

- POS 10= Falling or rising edge selection= ON for rising / OFF for falling
- POS 9= Output level= ON for UP / OFF for DOWN
- POS 8 to 1= pulse width=refer to table next page



SWITCH N#2 :

POS 8 to 1– pulse width

To select the desired pulse width , convert the time (from 5 to 20ms) to binary.

Then select the swith position (1 is ON, 0 is OFF).

For exemple :

I would like a pulse duration of 90ms.

In binary, this is like

00010010

So, according to the table we have :

Bit 1 : 0

Bit 2 : 1

Bit 2 : 0

...

Special mode for camera setting :

When you are setting the camera (sharpness, opening), it's not really easy to do it in strobe mode.

To do that, you have 2 possibilities :

- use the COGNEX stroboscopique mode
- Select all swith to ON and you will have 2 minutes light ON

SW2 tuning								Pulse time (ms)
8	7	6	5	4	3	2	1	
0	0	0	0	0	0	0	0	5
0	0	0	0	0	0	0	1	5
0	0	0	0	0	0	1	0	10
0	0	0	0	0	0	1	1	15
0	0	0	0	0	1	0	0	20
0	0	0	0	0	1	0	1	25
0	0	0	0	0	1	1	0	30
0	0	0	0	0	1	1	1	35
0	0	0	0	1	0	0	0	40
0	0	0	0	1	0	0	1	45
0	0	0	0	1	0	1	0	50
0	0	0	0	1	0	1	1	55
0	0	0	0	1	1	0	0	60
0	0	0	0	1	1	0	1	65
0	0	0	0	1	1	1	0	70
0	0	0	0	1	1	1	1	75
0	0	0	1	0	0	0	0	80
0	0	0	1	0	0	0	1	85
0	0	0	1	0	0	1	0	90
0	0	0	1	0	0	1	1	95
0	0	0	1	0	1	0	0	100
0	0	0	1	0	1	0	1	105
0	0	0	1	0	1	1	0	110
0	0	0	1	0	1	1	1	115
0	0	0	1	1	0	0	0	120
0	0	0	1	1	0	0	1	125
0	0	0	1	1	0	1	0	130
0	0	0	1	1	0	1	1	135
0	0	0	1	1	1	0	0	140
0	0	0	1	1	1	0	1	145
0	0	0	1	1	1	1	0	150
0	0	0	1	1	1	1	1	155
0	0	1	0	0	0	0	0	160
0	0	1	0	0	0	0	1	165
0	0	1	0	0	0	1	0	170
0	0	1	0	0	0	1	1	175
0	0	1	0	0	1	0	0	180
0	0	1	0	0	1	0	1	185
0	0	1	0	0	1	1	0	190
0	0	1	0	0	1	1	1	195
0	0	1	0	1	0	0	0	200
1	1	1	1	1	1	1	1	2mn

