LED Indicators

MultiLED display

Series ML

Series ML

Technical features

Body material: **Polycarbonate (PC) V0/UL 94**
Body colour: **Black**
Protection degree: **22/30 ML IP40**
22/30 MLH IP65
22/48 ML IP54

Working temperature: **-20°C +40°C**
Operating life at AT 25°C: **> 100.000 h**
Not replaceable LEDs

CE

Supply voltage +/- 10%

Power	Consumption	Current
24 Vac/dc	15-20mA	AC/DC
48 Vac/dc	15-20mA	AC/DC
130 = 110-130 Vac/dc	15-20mA	AC/DC
240 Vac	9mA	Alternating Current
220 Vdc	9mA	Direct Current
380-400 Vac	10mA	Three Phase

Other power supplies on request

Available with integrated Lamp Test circuit (LT), to test all signals at once.
Lamp test time: Max 10 min.

Customer can choose the LED colors, their arrangement and the text next to the LEDs. Easy label replacement, freely exchangeable at any time.

Tropicalization treatment inside.

Easy to connect thanks to the Faston terminals 2.8mm x 0.8mm, Screw terminals or Flying Leads.

Compliance:
Directive 2006/95/EC Low Voltage
Directive 2004/108/EC Electromagnetic Compatibility
Directive 2011/65/EC RhOS
Directive 2006/42/EC Machinery

Conformity to standards:
EN 60947.5.1 / EN 60073 / EN 60529 / EN 60068-2-6 / EN 60204.1 / EN ISO 7731 / EN 981 / IEC 536

Customs tariff: **85389091**

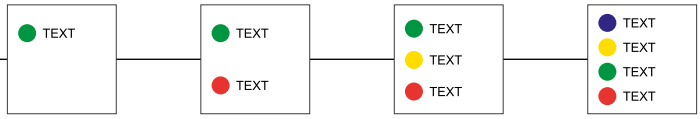
DOMO reserves the right to change, amend, modify, suspend, continue or terminate all or any part of the Product range either in an individual case or in general, at any time without notice.

Series ML - ø22mm

Overview

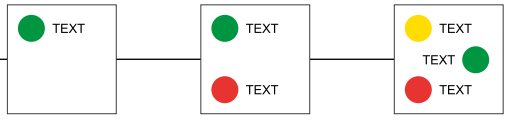
MultiLED display Indicators with Ø5mm LEDs, IP40 — 30x30mm

Head shape



MultiLED display Indicators with Ø10mm LED diffusers, IP65 — 30x30mm

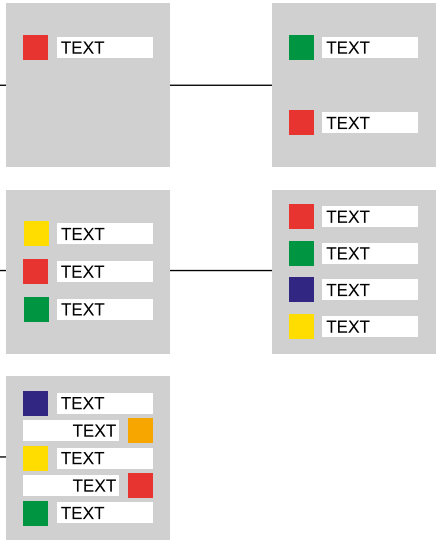
Head shape



22/30

MultiLED display Indicators, IP54 — 48x48mm

Head shape



22/48

Hole Size
ø22mm

Connections
FASTON terminals
SCREW terminals
FLYING LEADS

Series ML - ø22mm

Coding

MultiLED display Indicators 22/30

Connections
- **HD** Faston terminals
- **TV** Screw terminals

Head dimension
- **30** 30x30mm Square

Optional
- **H** MultiLED IP65 (max 3 LEDs NO LT)

Power supply
AC/DC
- **24 Vac/dc**
- **48 Vac/dc**
- **130 Vac/dc**

Alternating Current
- **240 Vac** *(do not use for phase control)*

Direct Current
- **220 Vdc**

Other power supplies on request

Product Code: **HD22/30 MLH 1 Vxx FL** — Extra Options

Cut-out
- **22** ø22mm

ML MultiLED standard

LED number
- **1** 1 LED
- **2** 2 LED
- **3** 3 LED
- **4** 4 LED

Options
- **FL** Flying Leads*
- **TR** Tropicalization
- **LT** Integrated Lamp Test facility

MultiLED display Indicators 22/48

Connections
- **HD** Faston terminals
- **TV** Screw terminals

Head dimension
- **48** 48x48mm Square

LED number
- **1** 1 LED
- **2** 2 LED
- **3** 3 LED
- **4** 4 LED
- **5** 5 LED**

Power supply
AC/DC
- **24 Vac/dc**
- **48 Vac/dc**
- **130 Vac/dc**

Alternating Current
- **240 Vac** *(do not use for phase control)*

Direct Current
- **220 Vdc**

Other power supplies on request

Product Code: **HD22/48 ML 1 Vxx FL** — Extra Options

Cut-out
- **22** ø22mm

ML MultiLED standard

Options
- **FL** Flying Leads*
- **TR** Tropicalization
- **LT** Integrated Lamp Test facility

Please see product range section for the feasibility. Special version on request.

* Please contact our sales office to define details.

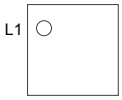
** Lamp test not available

Series ML - ø22mm

Ø5mm LEDs, IP40

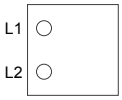
HD22/30 ML
Head 30x30mm
Cut-out Ø22
LEDs: Ø5mm
Weight 20g

LEDs colors available
- Red
- Green
- Yellow
- Amber
- Blue
- White



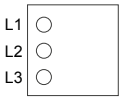
HD22/30 ML1		
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____

TR LT



HD22/30 ML2		
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____

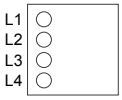
TR LT



HD22/30 ML3		
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____
	L3 _____	_____

TR LT

- 240V = do not use for phases controller read page 53
- Max. two LEDs simultaneously



HD22/30 ML4		
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____
	L3 _____	_____
	L4 _____	_____

TR LT

- 240V = do not use for phases controller read page 53
- Max. three LEDs simultaneously

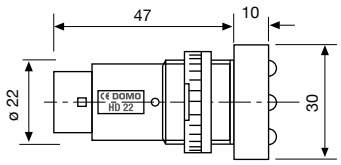
Note Lamp test time: max. 10 min

Series ML - ø22mm

Dimensions and wiring

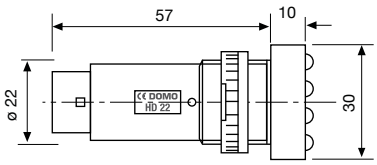
HD22/30 ML

Dimensions mm 1:2



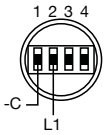
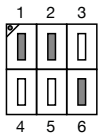
board thickness 10 mm
clamping: threaded nut

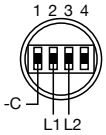
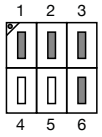
Dimensions mm 1:2

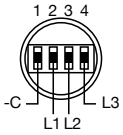
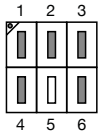


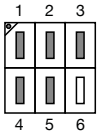
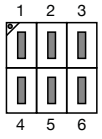
board thickness 1 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

Standard	Standard + Lamp Test (LT)
	 1 - Com 2 - L1 3 4 5 6 - LT

Standard	Standard + Lamp Test (LT)
	 1 - Com 2 - L1 3 - L2 4 5 6 - LT

Standard	Standard + Lamp Test (LT)
	 1 - Com 2 - L1 3 - L2 4 - L3 5 6 - LT

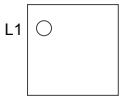
Standard	Standard + Lamp Test (LT)
 1 - Com 2 - L1 3 - L2 4 - L3 5 - L4 6 - LT	 1 - Com 2 - L1 3 - L2 4 - L3 5 - L4 6 - LT

Product range series ML - ø22mm

Ø5mm LEDs, IP40

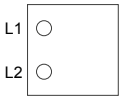
TV22/30 ML
Head 30x30mm
Cut-out Ø22
LEDs: Ø5mm
Weight 23g

LEDs colors available
- Red
- Green
- Yellow
- Amber
- Blue
- White



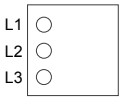
	TV22/30 ML1	
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____

FL TR LT



	TV22/30 ML2	
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____

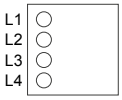
FL TR LT



	TV22/30 ML3	
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____
	L3 _____	_____

FL TR LT

- 240V = do not use for phases controller read page 53
- Max. two LEDs simultaneously



	TV22/30 ML4	
Supply Voltage	V _____	
	LEDs colors	Text
	L1 _____	_____
	L2 _____	_____
	L3 _____	_____
	L4 _____	_____

FL TR LT

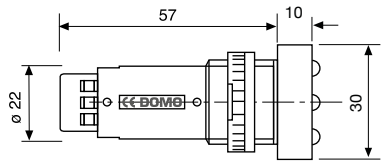
- 240V = do not use for phases controller read page 53
- Max. three LEDs simultaneously

Note Lamp test time: max. 10 min

Dimensions and wiring series ML - ø22mm

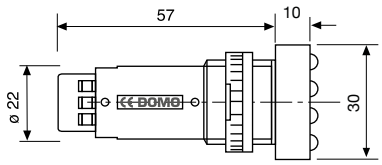
TV22/30 ML

Dimensions mm 1:2



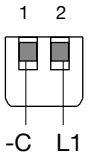
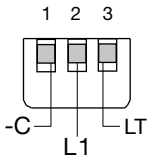
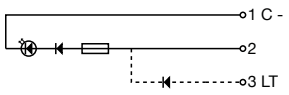
board thickness 10 mm
clamping: threaded nut

Dimensions mm 1:2

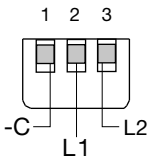
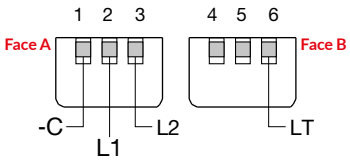
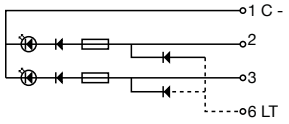


board thickness 1 mm
clamping: threaded nut

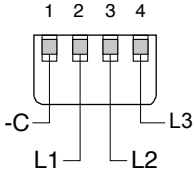
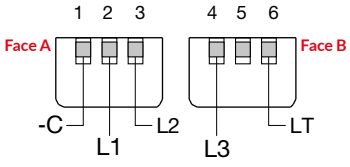
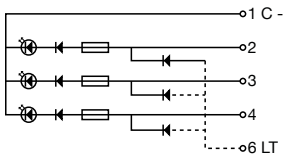
Screw terminal 14 AWG - 2,5mmq

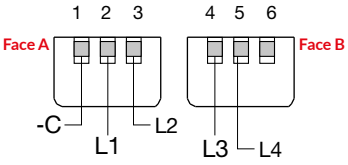
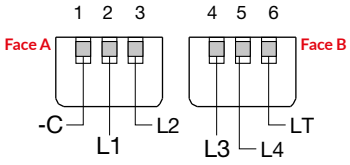
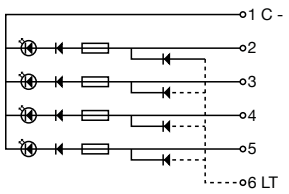
Standard	Standard + Lamp Test (LT)	Flying Leads
		

Screw terminal 16 AWG - 0,75-0,1mmq

Standard	Standard + Lamp Test (LT)	Standard / Standard + Lamp Test (LT)
		

Screw terminal 16 AWG - 0,75-0,1mmq

Standard	Standard + Lamp Test (LT)	Standard / Standard + Lamp Test (LT)
		

Standard	Standard + Lamp Test (LT)	Standard / Standard + Lamp Test (LT)
		

Series ML - ø22mm

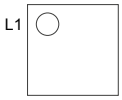
Product range

Ø10mm LEDs, IP65

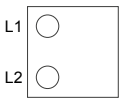
LEDs colors available
- Red
- Green
- Yellow
- Amber
- Blue
- White

HD22/30 MLH
Head 30x30mm
Cut-out Ø22
LED diffusers: Ø10mm
Weight 17g

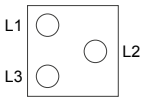
TV22/30 MLH
Head 30x30mm
Cut-out Ø22
LED diffusers: Ø10mm
Weight 20g



Standard	HD22/30 MLH1	TV22/30 MLH1
Supply Voltage	V _____	V _____
	LEDs colors / Text	LEDs colors / Text
	L1 _____ _____	L1 _____ _____
	TR LT	FL TR LT



Standard	HD22/30 MLH2	TV22/30 MLH2
Supply Voltage	V _____	V _____
	LEDs colors / Text	LEDs colors / Text
	L1 _____ _____	L1 _____ _____
	L2 _____ _____	L2 _____ _____
	TR LT	FL TR LT



Standard	HD22/30 MLH3	TV22/30 MLH3
Supply Voltage	V _____	V _____
	LEDs colors / Text	LEDs colors / Text
	L1 _____ _____	L1 _____ _____
	L2 _____ _____	L2 _____ _____
	L3 _____ _____	L3 _____ _____
	TR LT	FL TR LT

- 240V = do not use for phases controller
  read page 53
- Max. two LEDs simultaneously

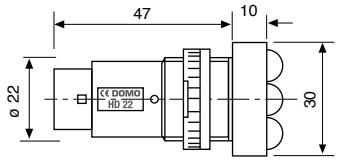
Note Lamp test time: max. 10 min

Series ML - ø22mm

Dimensions and wiring

HD22/30 MLH

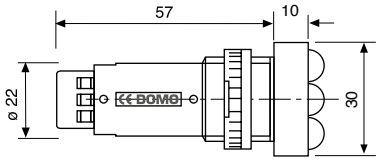
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/30 MLH

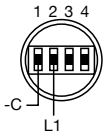
Dimensions mm 1:2



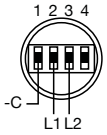
board thickness 10 mm
clamping: threaded nut

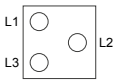
Faston terminals Tabs 2,8 x 0,8mm

Standard

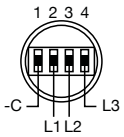


Standard



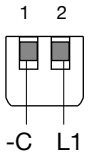


Standard

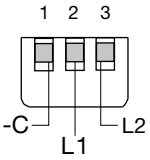


Screw terminal 14 AWG - 2,5mmq

Standard

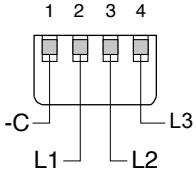


Standard



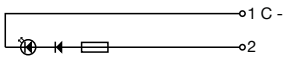
Screw terminal 16 AWG - 0,75-0,1mmq

Standard



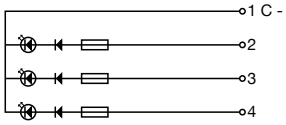
Flying Leads

Standard



Standard

Standard



Series ML - ø22mm

Product range

IP54

LEDs colors available
- Red
- Green
- Yellow
- Amber
- Blue
- White

HD 22/48
Head 48x48mm
Cut-out Ø22
LED diffusers: 8x8mm
Weight 35g

TV 22/48
Head 48x48mm
Cut-out Ø22
LED diffusers: 8x8mm
Weight 38g

L1 ☐

Supply Voltage

HD22/48 ML1	TV22/48 ML1
Supply Voltage V _____	V _____
LEDs colors / Text	LEDs colors / Text
L1 _____ _____	L1 _____ _____
TR LT	FL TR LT

L1 ☐
L2 ☐

Supply Voltage

HD22/48 ML2	TV22/48 ML2
V _____	V _____
LEDs colors / Text	LEDs colors / Text
L1 _____ _____	L1 _____ _____
L2 _____ _____	L2 _____ _____
TR LT	FL TR LT

L1 ☐
L2 ☐
L3 ☐

Supply Voltage

HD22/48 ML3	TV22/48 ML3
V _____	V _____
LEDs colors / Text	LEDs colors / Text
L1 _____ _____	L1 _____ _____
L2 _____ _____	L2 _____ _____
L3 _____ _____	L3 _____ _____
TR LT	FL TR LT

- 240V = do not use for phases controller read page 53
- Max. two LEDs simultaneously

L1 ☐
L2 ☐
L3 ☐
L4 ☐

Supply Voltage

HD22/48 ML4	TV22/48 ML4
V _____	V _____
LEDs colors / Text	LEDs colors / Text
L1 _____ _____	L1 _____ _____
L2 _____ _____	L2 _____ _____
L3 _____ _____	L3 _____ _____
L4 _____ _____	L4 _____ _____
TR LT	FL TR LT

- 240V = do not use for phases controller read page 53
- Max. three LEDs simultaneously

L1 ☐ ☐ L2
L3 ☐ ☐ L4
L5 ☐

Supply Voltage

HD22/48 ML5	TV22/48 ML5
V _____	V _____
LEDs colors / Text	LEDs colors / Text
L1 _____ _____	L1 _____ _____
L2 _____ _____	L2 _____ _____
L3 _____ _____	L3 _____ _____
L4 _____ _____	L4 _____ _____
L5 _____ _____	L5 _____ _____
TR	FL TR

- 240V = do not use for phases controller read page 53
- Max. three LEDs simultaneously

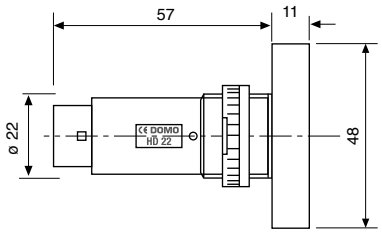
Note Lamp test time: max. 10 min

Series ML - ø22mm

Dimensions and wiring

HD22/48 ML

Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

Faston terminals Tabs 2,8 x 0,8mm

L1 □

Standard	Standard + Lamp Test (LT)
1 - Com 2 - L1 3 4 5 6	1 - Com 2 - L1 3 4 5 6 - LT

L1 □
L2 □

Standard	Standard + Lamp Test (LT)
1 - Com 2 - L1 3 - L2 4 5 6	1 - Com 2 - L1 3 - L2 4 5 6 - LT

L1 □
L2 □
L3 □

Standard	Standard + Lamp Test (LT)
1 - Com 2 - L1 3 - L2 4 - L3 5 6	1 - Com 2 - L1 3 - L2 4 - L3 5 6 - LT

L1 □
L2 □
L3 □
L4 □

Standard	Standard + Lamp Test (LT)
1 - Com 2 - L1 3 - L2 4 - L3 5 - L4 6	1 - Com 2 - L1 3 - L2 4 - L3 5 - L4 6 - LT

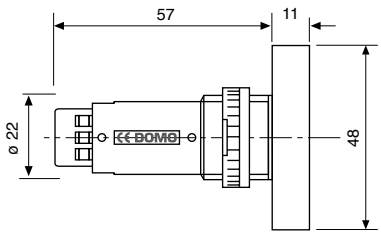
L1 □ □ L2
L3 □ □ L4
L5 □

Standard
1 - Com 2 - L1 3 - L2 4 - L3 5 - L4 6 - L5

Series ML - ø22mm

TV22/48 ML

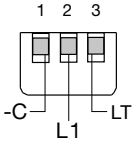
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

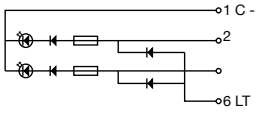
Screw terminal 14 AWG - 2,5mmq

Standard



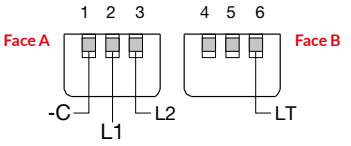
Flying Leads

Standard

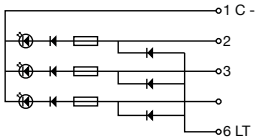


Screw terminal 16 AWG - 0,75-0,1mmq

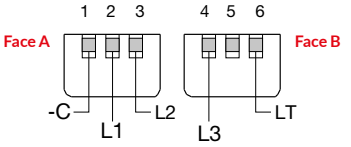
Standard



Standard



Standard



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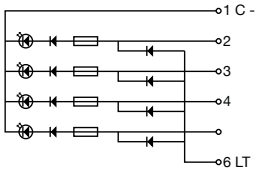

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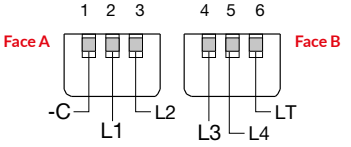
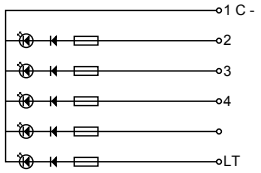
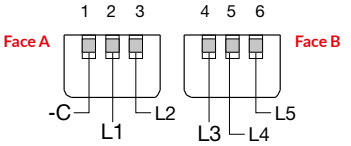


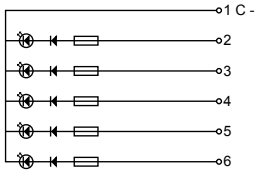
Standard



Standard



Standard



Series ML - ø22mm

Coding

Three Phases Controller

MultiLED display Indicators 22/30

Connections
- **TV** Screw terminals
- **HD** Faston terminals

Head dimension
- **30** 30x30mm Square

Optional
- **H** MultiLED IP65

Power supply
Alternating Current
- **380 + n = 240Vac** (HD only)
- **400V** (TV only)

Product Code — **TV22/30 MLH 3 Vxx**

Cut-out
- **22** ø22mm

ML MultiLED standard

LED number
- **3** 3 LED

MultiLED display Indicators 22/48

Connections
- **TV** Screw terminals
- **HD** Faston terminals

Head dimension
- **48** 48x48mm Square

LED number
- **3** 3 LED

Power supply
Alternating Current
- **380 + n = 240Vac** (HD only)
- **400V** (TV only)

Product Code — **TV22/48 ML 3 Vxx**

Cut-out
- **22** ø22mm

ML MultiLED standard

Please see product range section for the feasibility. Special version on request.

* Please contact our sales office to define details.

** Lamp test not available

Series ML - ø22mm

Three Phases Controller

TV22/30 ML3 400
Head 30x30mm
Cut-out Ø22
LEDs: Ø5mm
Weight 23g

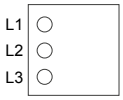
IP40

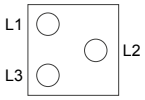
TV22/30 MLH3 400
Head 30x30mm
Cut-out Ø22
LED diffusers: Ø10mm
Weight 20g

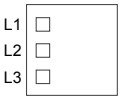
IP65

TV 22/48 ML3 400
Head 48x48mm
Cut-out Ø22
LED diffusers: 8x8mm
Weight 37g

IP54





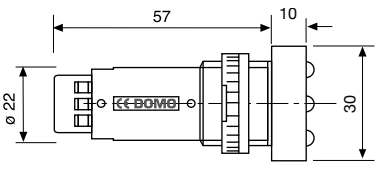


Standard	TV22/30 ML3 400	TV22/30 MLH3 400	TV22/48 ML3 400
Supply Voltage	V 400	V 400	V 400
LEDs colors	Text	Text	Text
L1 ● Red			
L2 ● Red			
L3 ● Red			

Dimensions and wiring series ML - ø22mm

TV22/30 ML

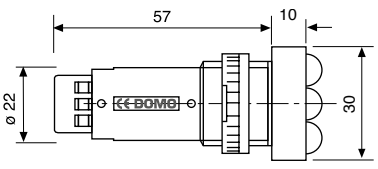
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/30 MLH

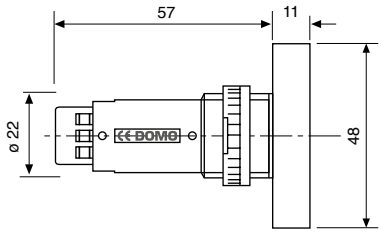
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

TV22/48 ML

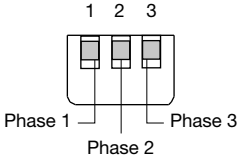
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

Screw terminal 14 AWG - 2,5mmq

Standard

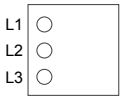


Series ML - ø22mm

Three Phases Controller

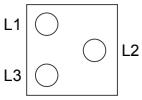
HD22/30 ML3 380+N
Head 30x30mm
Cut-out Ø22
LEDs: Ø5mm
Weight 23g

IP40



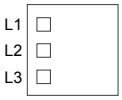
HD22/30 MLH3 380+N
Head 30x30mm
Cut-out Ø22
LED diffusers: Ø10mm
Weight 20g

IP65



HD22/48 ML3 380+N
Head 48x48mm
Cut-out Ø22
LED diffusers: 8x8mm
Weight 37g

IP54

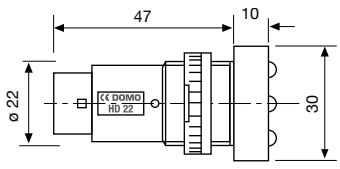


Part Number	HD22/30 ML3 380+N	HD22/30 MLH3 380+N	HD22/48 ML3 380+N
Supply Voltage	V 240Vac	V 240Vac	V 240Vac
LEDs colors	Text	Text	Text
L1 ● Red			
L2 ● Red			
L3 ● Red			

Dimensions and wiring series ML - ø22mm

HD22/30 ML

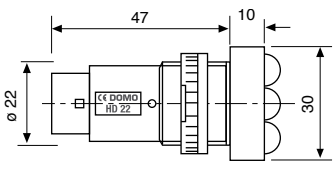
Dimensions mm 1:2



board thickness 10 mm
clamping: threaded nut

HD22/30 MLH

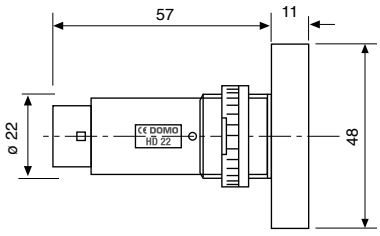
Dimensions mm 1:2



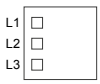
board thickness 10 mm
clamping: threaded nut

HD22/48 ML

Dimensions mm 1:2

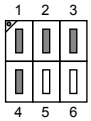


board thickness 10 mm
clamping: threaded nut



Faston terminals Tabs 2,8 x 0,8mm

Standard



1 - Neutral
2 - Phase 1
3 - Phase 2
4 - Phase 3
5
6