



## Heavy Duty Freestanding Enclosures - Wall-mounted Enclosures - Consoles



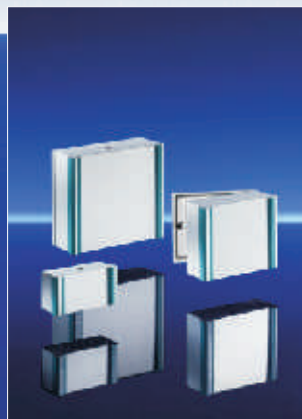
# suspension systems



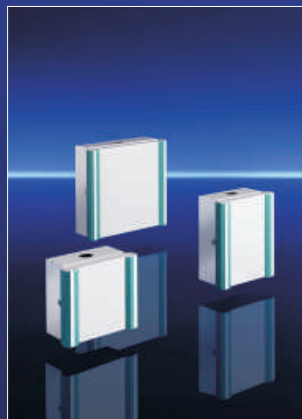
**HLT - page 56**  
Professional suspension system for on-board control unit installation; suitable for D93-DPH, D93-DCF, D93-DFF casings or aluminium consoles.



**D93-DCF - page 63**  
Hanging control box in completely welded steel; hinged back door; anodized aluminium front panel; aluminium frame. HLT suspension system installation configuration.



**D93-DPH - page 64**  
Hanging control box in completely welded steel; hinged back door; anodized aluminium front panel; side profiles in aluminium. HLT suspension system installation configuration.



**D93-DFF - page 65**  
Hanging control box in completely welded steel; hinged front door; side profiles in aluminium. 2mm thick FeZn internal plate; HLT suspension system installation configuration.

# HLT suspension systems

**HLT:**

A complete range of accessories that guarantees the best results for control units in man/automatic machines interaction, thanks to the design and the functionality of components. It is possible to add assisted suspension systems and customised systems depending on components weight. To combine with D93-DPH, D93-DCF, D93-DFF control cases, aluminium cases and VESA equipment.

**Painting:**

Thermosetting powders.

**Material:**

Aluminium

**Standard colours:**

RAL7016 (connectors)  
RAL7035 (tubes)

**Degree of Protection and Approvals:**

\*IP55 EN 62 208 • EN 61 439-1  
IK10 EN 62 208 • EN 61 439-1



EN 62 208 • EN 61 439-1



\*TYPE 1, 12 • Standard 508  
NEMA 1, 12 • Standard 250



2011/65/CE



1272/2008/CE

\* To combine with D93-DPH,  
D93-DCF, D93-DFF control cases.

THE UL/CSA MARK MUST BE SPECIFICALLY REQUESTED IN THE ORDER.



# HLT suspension systems

- 62x85 mm tubular profile
- Loading capacity up to 800N, 1000 mm overhang.
- Tubular profile length up to 2000 mm.
- Tilt adjustment according to load.
- Colour: similar to RAL 7016 (anthracite grey)  
Tubular profile: similar to RAL 7035 (light grey)

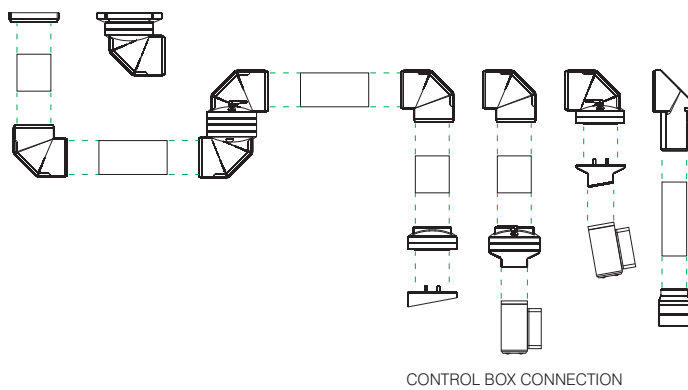


Suspension system made out of extruded aluminium profiles, that grant strength and great adaptability

SUSPENSION SYSTEMS

## Configuration selection guide:

### CEILING APPLICATION



CONTROL BOX CONNECTION

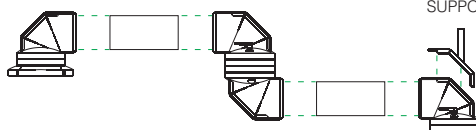
### MOVABLE WALL APPLICATION



### FIXED WALL APPLICATION

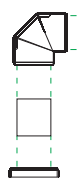


### INTERMEDIATE JOINT APPLICATION

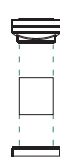


LIGHT-SIGNALLING DEVICE SUPPORT

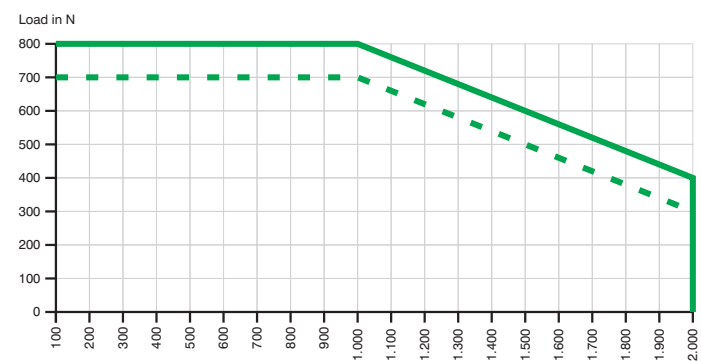
### FLOOR APPLICATION



VERTICAL FLOOR APPLICATION

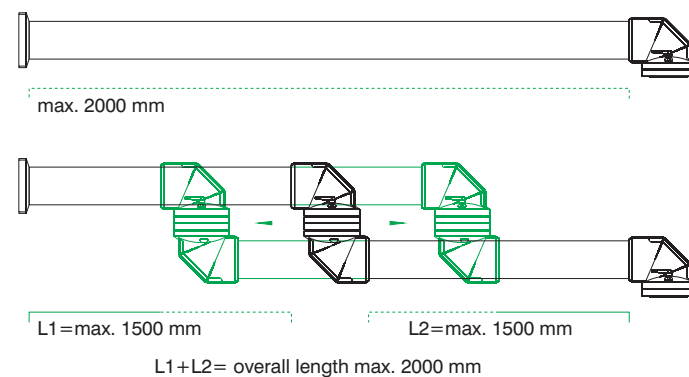


Support horizontal tubular profile length defines system's loading capacity.

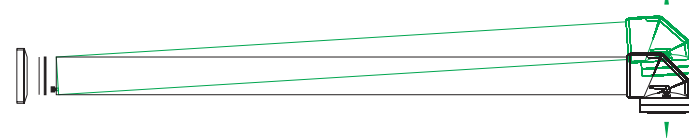


Support horizontal tubular profile length in mm  
Without intermediate joint ——— With intermediate joint - - -

In an intermediate joint suspension system, single tubular profile length (L1-L2) is variable (max. 1500 mm), but the maximum overall length is 2000 mm.



Tilt constant adjustment (according to load, up to 4°)



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# HLT accessories

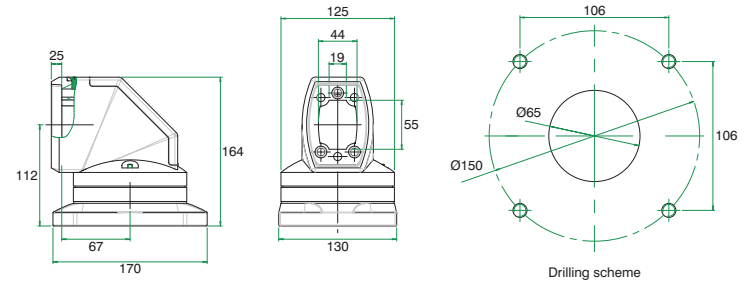
02 CODES ARE THE SAME AS -01 CODES

## Swivelling turret



For support arm horizontal swivelling at 30° intervals (factory settings 150°/150°). 180° rotated application is possible. Tilt adjustment screw according to load.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 3,2 Kg.  
**Characteristics:** Removable cover for installation



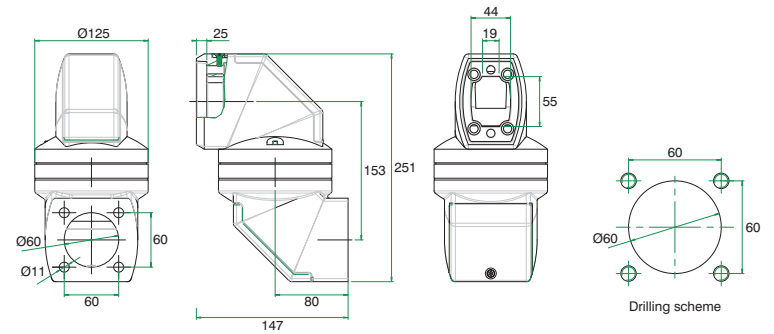
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## Swivelling wall bracket



For support arm horizontal swivelling at 30° intervals (factory settings 90°/90°). 180° rotated application is possible. Tilt adjustment screw according to load.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 4,1 Kg.  
**Characteristics:** Removable cover for installation



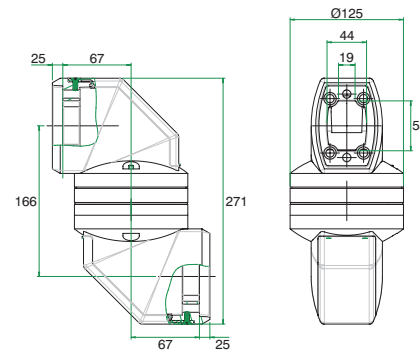
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## Intermediate joint



To connect two horizontal profiles and to make them autonomously swivelling at 30° intervals (factory settings 150°/150°). 180° rotated application is possible. Tilt adjustment screw according to load.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 4,9 Kg.  
**Characteristics:** Removable cover for installation



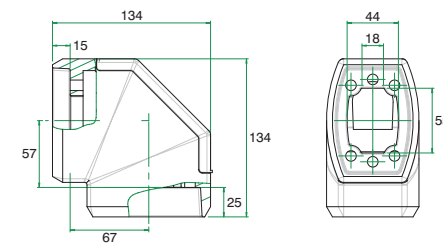
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## 90°-fixed coupling angle



To connect two profiles (horizontal and vertical).

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 1,4 Kg.  
**Characteristics:** Removable cover for installation



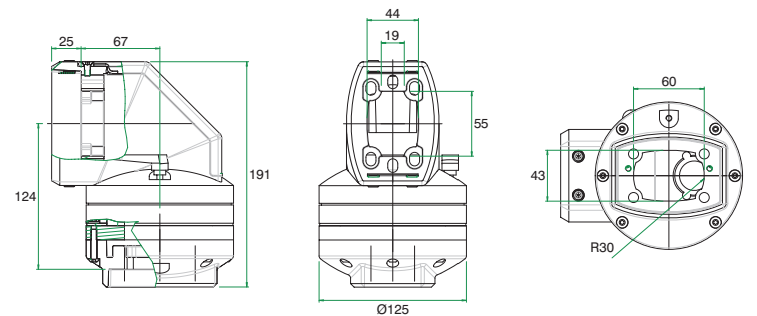
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## 90°-swivelling coupling angle



To connect two profiles (horizontal and vertical) and to make them swivelling at 30° intervals (factory settings 170°/170°). 50% limited loading capacity. Dim. max: H1000 W1000 mm. Connect the bottom part to the profile and fix it to the top.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 2,8 Kg.  
**Characteristics:** Removable cover for installation



<b>Code</b>	<b>40125-02</b>
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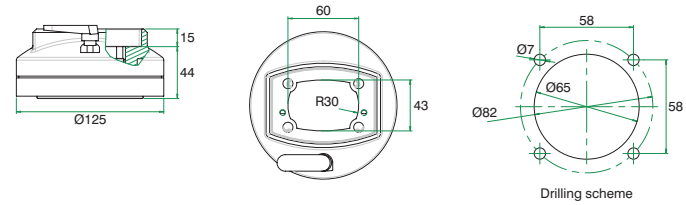
## Swivelling coupling joint



**Swivelling coupling joint:**  
To connect a HLT profile to a control box and make them swivelling with screws at 90° intervals (factory settings 170°/170°).

**Material:** Aluminium    **Colour:** RAL7016 (anthracite grey)

**Weight:**  
Approx 1,5 Kg.



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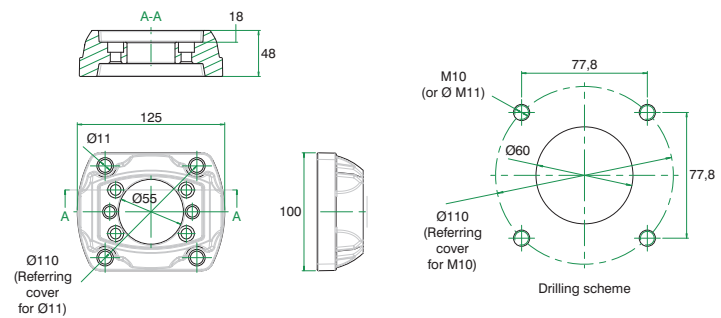
## Wall/floor fixed flange



To connect a HLT profile to horizontal or vertical surfaces.  
Tilt adjustment with screws according to load.

**Material:** Aluminium    **Colour:** RAL7016 (anthracite grey)

**Weight:**  
Approx 0,6 Kg.



<b>Code</b>	<b>40106-01</b>
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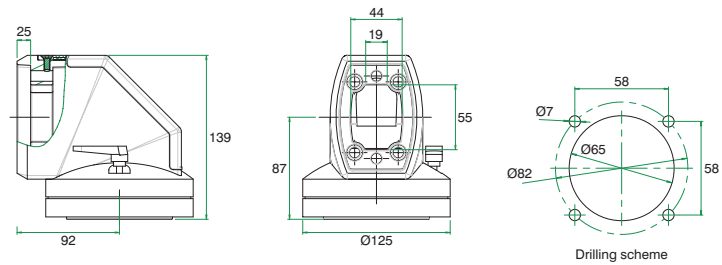
## Swivelling coupling joint for control box



To connect a HLT profile to a control box and make them swivelling with screws at 90° intervals (factory settings 170°/170°).  
Installation on bottom base is possible.

**Material:** Aluminium    **Colour:** RAL7016 (anthracite grey)

**Weight:** Approx 2,4 Kg.    **Characteristics:** Removable cover for installation



<b>Code</b>	<b>40108-02</b>
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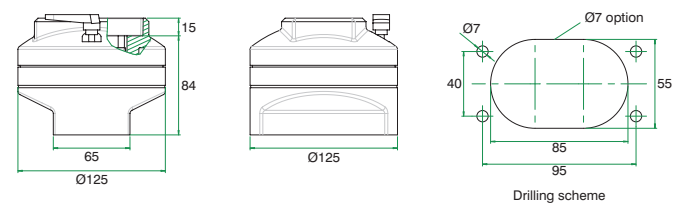
## Swivelling coupling joint with adaptor



To connect a HLT profile to reduced-depth control boxes (small flange).  
90°/90° swivelling interval restriction with screws.  
Swivelling interval 170°/170°.

**Material:** Aluminium    **Colour:** RAL7016 (anthracite grey)

**Weight:**  
Approx 1,9 Kg.



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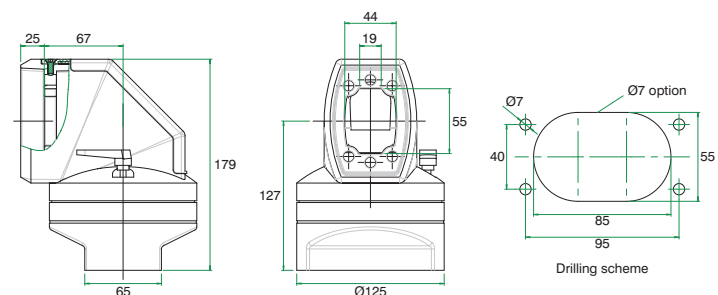
## Swivelling coupling joint with adaptor for control box



To connect a HLT profile to reduced-depth control boxes (small flange).  
Swivelling interval 170°/170°.  
90°/90° swivelling interval restriction with screws.  
Installation on bottom base is possible.

**Material:** Aluminium    **Colour:** RAL7016 (anthracite grey)

**Weight:** Approx 2,8 Kg.    **Characteristics:** Removable cover for installation



<b>Code</b>	<b>40109-02</b>
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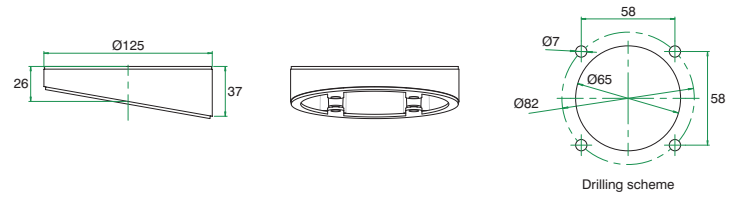
# HLT accessories

## 10° fixed tilt adaptor



For the 10° tilt of the connector with control boxes.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,3 Kg.



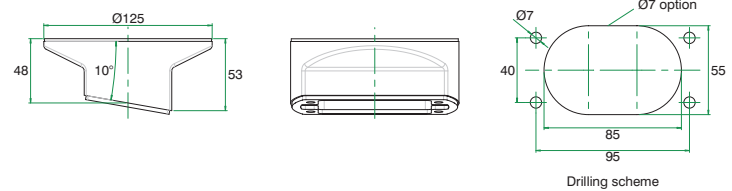
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## 10° fixed tilt adaptor (for reduced-depth control boxes)



For the 10° tilt of the connector with reduced-depth control boxes (small flange).

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,5 Kg.



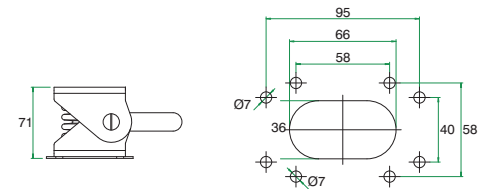
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## Boxes tilt adaptor



8° interval adjustable tilt adaptor, between 0° and 32° for boxes and connectors.  
Max permissible load: 25kg.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 1,0 Kg.  
**Characteristics:** With bellows sheath



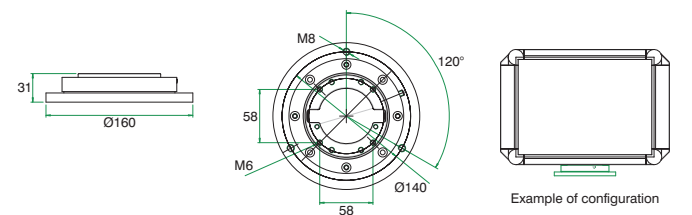
<b>Code</b>	<b>40119-01</b>
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## HLT Rotofix



For on-desk application with control boxes.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 2,0 Kg.  
**Characteristics:** With rotation limiter



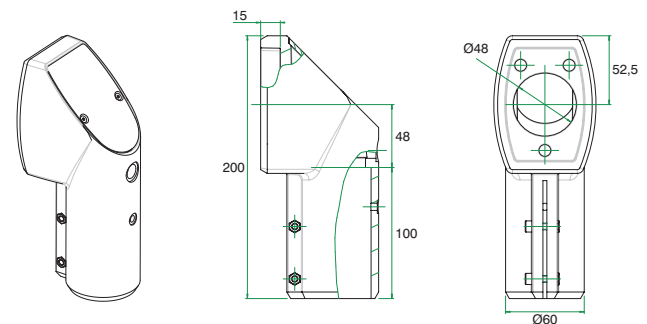
<b>Code</b>	<b>40121-01</b>
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## 90° angle adaptor for Ø48 tube



To connect a HLT horizontal profile and a Ø48 vertical tube.  
Anti-fall protection system is included.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,8 Kg.  
**Characteristics:** Removable cover for installation



<b>Code</b>	<b>40116-01</b>
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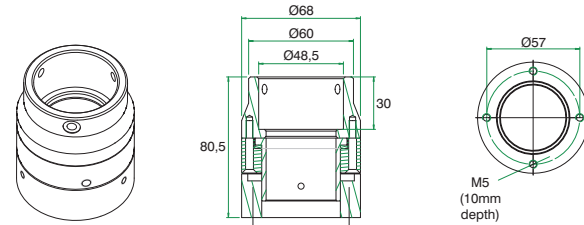
# HLT accessories

## Swivelling connector for Ø48 tube



To connect a Ø48 mm vertical tube to control boxes at a 250° interval.  
Anti-fall protection system is included.  
Max permissible load: 50 kg.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,7 Kg.



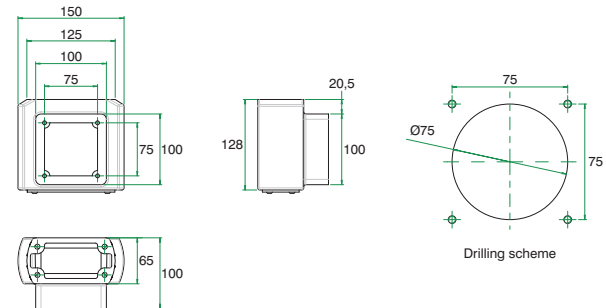
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## VESA adaptor



Connection to HLT suspension system.  
Degree of protection IP54 (on request).  
VESA® 75 or 100 standardisation (optionally).  
Cable exit on both side (on request).

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 1,2 Kg.



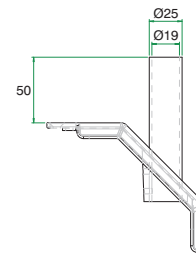
<b>Code</b>	<b>40112-01</b>
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## Light-signalling column support



For light-signalling columns with a 25 mm connector to:  
- Upper connector - Wall connector  
- Intermediate connector - Curves  
- 90° connector (normal with reduced flange)

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,6 Kg.



<b>Code</b>	<b>40115-01</b>
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## Cable protection flange



To protect control box connection electric cables.  
Suitable for all connectors types.

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,1 Kg.

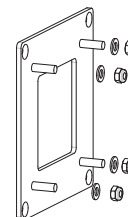
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## VESA adaptor flange



For fixed connection with VESA® 100 monitors and VESA® adaptors

**Material:** Aluminium  
**Colour:** RAL7016 (anthracite grey)  
**Weight:** Approx 0,1Kg.



<b>Code</b>	<b>40190-02</b>
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SUSPENSION SYSTEMS

# HLT accessories

## H85 x W62 mm TUBE

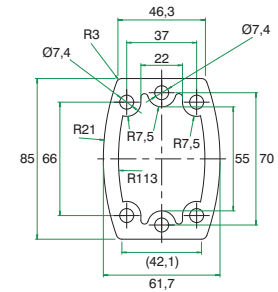


HLT profile for horizontal and vertical applications.  
Easily adaptable to requested length.  
Specific dimensions available on request.

**Material:** Aluminium  
**Colour:** RAL7035

**Weight:**  
Approx 6,0 Kg/mt.

DIMENSION mm	L250	L500	L1000	L2000
<b>Code</b>	<b>40130-0250</b>	<b>40130-0500</b>	<b>40130-1000</b>	<b>40130-2000</b>



## Ø48 TUBE

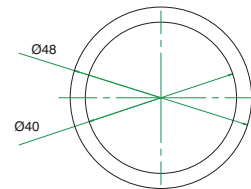


Circular-section tubes for vertical installation.  
Easily adaptable to requested length.  
Specific dimensions available on request.

**Material:** Aluminium  
**Colour:** RAL7035

**Weight:**  
Approx 1,6 Kg/mt.

DIMENSION mm	L250	L500	L750
<b>Code</b>	<b>40140-0250</b>	<b>40140-0500</b>	<b>40140-0750</b>



## SYSTEM COMBINATIONS : HLT COMBINATION

System components	Type of assembly: FLOOR	System components	Type of assembly: OVERHEAD
N - Mounting foot E - Rotating coupling. L - Adjustable inclination adapter 30°	P 3	N - Mounting foot E - Rotating coupling. L - Adjustable inclination adapter 30°	P 4
Type of assembly: WALL		Type of assembly: TOP	
A - Wall joint. F - Rotating elbow coupling.	W 1	B - Pivoting set-up joint. F - Rotating elbow coupling.	A 1
A - Wall joint. D - 90° elbow. E - Rotating coupling.	W 2	B - Pivoting set-up joint. D - 90° elbow. E - Rotating coupling.	A 2
A - Wall joint. G - Intermediate joint. F - Rotating elbow coupling.	W 3	B - Pivoting set-up joint. G - Intermediate joint. F - Rotating elbow coupling.	A 3
A - Wall joint. G - Intermediate joint. D - 90° elbow. E - Rotating coupling.	W 4	B - Pivoting set-up joint. G - Intermediate joint. D - 90° elbow. E - Rotating coupling.	A 4

technical data subject to change without notice

# D93-DCF hanging control boxes

**Casing:**

1,5 mm thick; welded monobloc structure.

**Internal plate:**

Not provided.

**Cable entry:**

HLT system installation configuration.

**Solid door:**

1,5 mm thick; polyurethane sealing gasket; pvc locking system with 3 mm double-comb tool insert; Other configurations are available.  
120° standard opening with reversible left hinges.

**Perimeter frame:**

Painted aluminium profiles, combined with 2 mm thick aluminium panel. It protrudes of 50 mm in W and in H.

**Earthing:**

M6 pins to be welded on structure and door.


**Painting:**

Thermosetting powders.


**Standard colours:**

RAL7035 textured  
Frame: RAL7016 textured

**Degree of Protection and Approvals:**

 IP55 EN 62 208 • EN 61 439-1  
IK10 EN 62 208 • EN 61 439-1

 EN 62 208 • EN 61 439-1

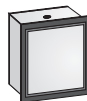
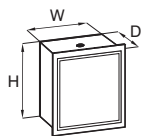
 TYPE 1, 12, 4 • Standard 508  
NEMA 1, 12, 4 • Standard 250



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Dimensions (mm)			-	D93-DCF	 Kg	 m <sup>3</sup>
H	W	D				
400	400	200	-	D93-DCF4420/HLT	12	0,04
500	400	200	-	D93-DCF4520/HLT	14	0,05
500	500	200	-	D93-DCF5520/HLT	16	0,06
600	400	200	-	D93-DCF4620/HLT	16	0,06
600	600	350	-	D93-DCF6635/HLT	26	0,15
700	500	350	-	D93-DCF5735/HLT	26	0,15



SUSPENSION  
SYSTEMS

# D93-DPH hanging control boxes

**Casing:**

1,5 mm thick; welded monobloc structure.

**Internal plate:**

Not provided.

**Cable entry:**

HLT system installation configuration.

**Solid door:**

1,5 mm thick; polyurethane sealing gasket; pvc locking system with 3 mm double-comb tool insert; Other configurations are available.  
120° standard opening with reversible left hinges.

**Perimeter frame:**

Painted aluminium profiles, combined with 2 mm thick aluminium panel. It protrudes of 30 mm in W.

**Earthing:**

M6 pins to be welded on structure and door.


**Painting:**

Thermosetting powders.


**Standard colours:**

RAL7035 textured  
Profile: RAL6033 textured

**Degree of Protection and Approvals:**

 IP55 EN 62 208 • EN 61 439-1  
IK10 EN 62 208 • EN 61 439-1

 EN 62 208 • EN 61 439-1

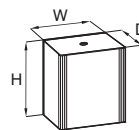
 TYPE 1, 12, 4 • Standard 508  
NEMA 1, 12, 4 • Standard 250



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 1272/2008/CE

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Dimensions (mm)			-	D93-DPH	 Kg	 m <sup>3</sup>
H	W	D				
200	360	155	-	D93-DPH3620/HLT	8	0,01
300	440	210	-	D93-DPH4430/HLT	10	0,03
380	440	210	-	D93-DPH4438/HLT	12	0,03
380	660	210	-	D93-DPH6638/HLT	15	0,06
500	560	210	-	D93-DPH5650/HLT	15	0,06

# D93-DFF hanging control boxes

**Casing:**

1,5 mm thick; welded monobloc structure.

**Internal plate:**

Not provided.

**Cable entry:**

HLT system installation configuration.

**Solid door:**

1,5 mm thick; polyurethane sealing gasket; pvc locking system with 3 mm double tool insert; Other configurations are available.  
120° standard opening with reversible right hinges.

**Perimeter frame:**

Painted aluminium profiles, combined with 2 mm thick aluminium panel. It protrudes of 30 mm in W.

**Earthing:**

M6 pins to be welded on structure and door.


**Painting:**

Thermosetting powders.


**Standard colours:**

RAL7035 textured  
Profile: RAL6033 textured

**Degree of Protection and Approvals:**

 IP55 EN 62 208 • EN 61 439-1  
IK10 EN 62 208 • EN 61 439-1

 EN 62 208 • EN 61 439-1

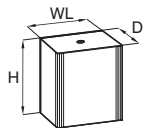
 TYPE 1, 12, 4 • Standard 508  
NEMA 1, 12, 4 • Standard 250



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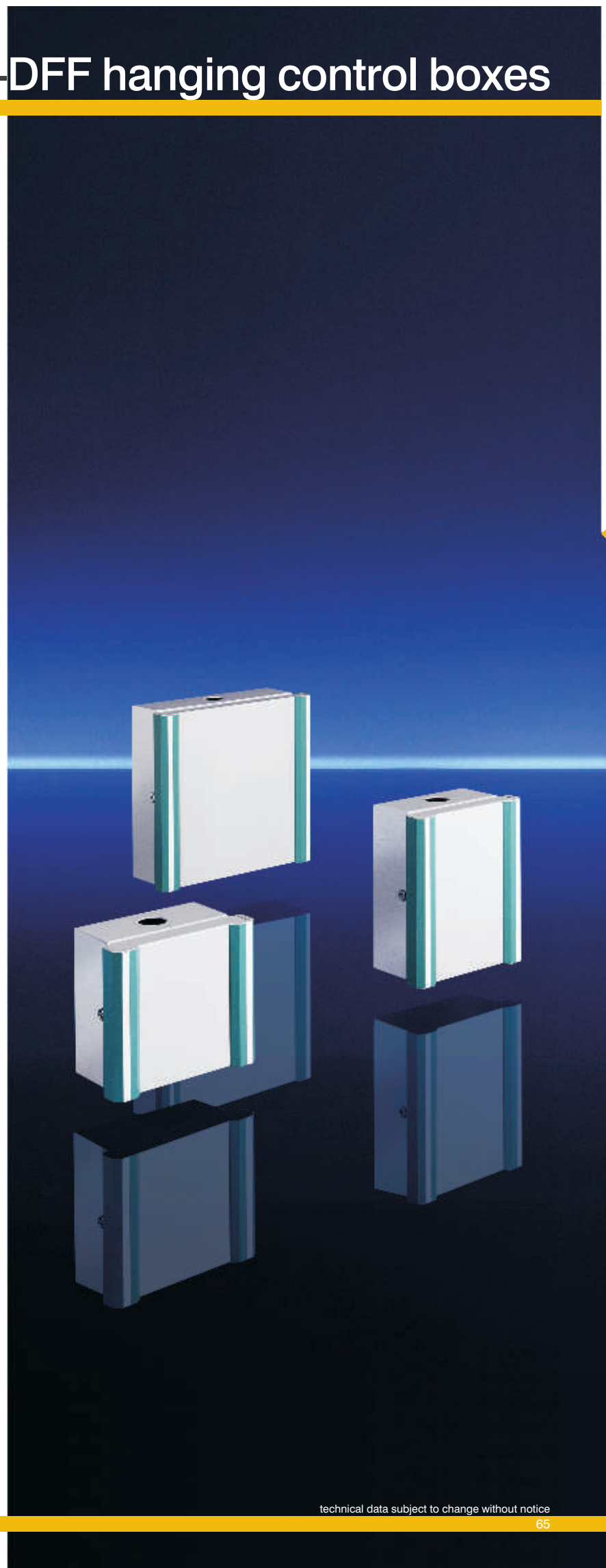
THE **UL/CSA** MARK MUST BE SPECIFICALLY REQUESTED IN THE ORDER



Dimensions (mm)			-	D93-DFF	 Kg	 m <sup>3</sup>
H	W	D				
300	300	180	-	D93-DFF3318/HLT	9	0,02
300	400	180	-	D93-DFF4318/HLT	10	0,03
400	300	180	-	D93-DFF3418/HLT	10	0,03
400	400	180	-	D93-DFF4418/HLT	12	0,04
500	500	180	-	D93-DFF5518/HLT	14	0,05



D93-DFF box opening detail.



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