

1186435

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Screw locking mechanism blank faceplate of the ECS family. IP66/IP67/IP68/IP69 degree of protection when mated with associated housing. Color: Gray (7042), width: 97 mm, height: 15 mm, depth: 42 mm



### Your advantages

- · Ultra-compact housing design for a wide range of applications
- · Housing design supports the installation of a range of PCB thicknesses for high application diversity
- · Optional accessories for wall and mast mounting
- · Proven PCB connection technology
- · Integrated tamper protection
- · Suitable for outdoor/indoor applications

#### Commercial data

Item number	1186435
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AC04
Product key	ACFDAB
GTIN	4063151227371
Weight per piece (including packing)	29 g
Weight per piece (excluding packing)	29 g
Customs tariff number	84879090
Country of origin	US



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### Technical data

#### Notes

Assembly note	Please observe the application note in the download area.
Degree of protection	The specification for IP protection applies to the item combination ECS-B in conjunction with an unaltered ECS-PB front panel.
Degree of protection	When using front panels with connection technology, the IP protection class of the connection technology determines the protection class of the overall solution.
Recommendation	Further information and detailed dimensions are available in the download area.

### Product properties

Product type	Front plate
Housing type	Outdoor housing
Housing series	ECS
Product family	ECS64XS
Туре	Screw locking mechanism
Battery compartment	no

#### **Dimensions**

Dimensional drawing	h
Width	97 mm
Height	15 mm
Depth	42 mm
PCB design	
PCB thickness	1.57 mm 2.36 mm

#### Material specifications

Color (Housing)	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing material	PC
Surface characteristics	untreated

#### Environmental and real-life conditions

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Specification	IEC 60068-2-6:2007-12



1186435

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Test duration per axis         2.5 h           Test directions         X., Y- and Z-axis           ow-wire test         Specification           IEC 60695-2-11:2014-02         IEC 60695-2-11:2014-02           Temperature         850 °C           Time of exposure         30 s           schanical strength / tumbling barrel         Specification           Height of fall         50 cm           Frequency         50           specification         IEC 60068-2-31:2008-05           Frequency         50           specification         IEC 60068-2-27:2008-02           Pulse shape         Semi-sinusoidal           Acceleration         50g           Shock duration         11 ms           Number of shocks per direction         20           Test directions         X., Y- and Z-axis (pos. and neg.)           alt spray test         Specification           Specification         DIN EN 60068-2-11:2000-02           Test duration         96 h           set for substances that would hinder coating with paint or varnish           Specification         VDMA 24364:2018-05           Result         Test passed           spree of protection (IP code)         IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08	Frequency	10 - 2000 - 10 Hz
Test duration per axis         2.5 h           Test directions         x, y- and Z-axis           How-wire test         IEC 60695-2-11:2014-02           Specification         IEC 60695-2-11:2014-02           Temperature         30 s           Temperature         30 s           Specification         IEC 60088-2-31:2008-05           Height of fall         50 cm           Frequency         50           hocks         Frequency           Specification         IEC 60068-2-27:2008-02           Pulse shape         Semi-sinusoidal           Acceleration         50g           Shock duration         11 ms           Number of shocks per direction         20           Test directions         x, y- and Z-axis (pos. and neg.)           alt spray test         Specification           Specification         DIN EN 60068-2-11-2000-02           get of trustion         96 h           est for substances that would hinder coating with paint or varnish           Specification         VDMA 24364-2018-05           Result         Test passed           egree of protection (IP code)         IPG6/IPG7 (It m/30 min)/IPG8 (2 m/24 h)/IPG9/IPG9K           mbient conditions         IPG6/IPG7/IPG8/IPG8           <	Sweep speed	1 octave/min
Test directions   X., Y- and Z-axis	Acceleration	15g (61.6 Hz 2000 Hz)
Specification   IEC 60695-2-11:2014-02   Specification   IEC 60695-2-11:2014-02   Specification   IEC 60695-2-11:2014-02   Specification   IEC 60695-2-11:2008-05   Specification   IEC 60668-2-31:2008-05   Specification   IEC 60668-2-31:2008-02   Specification   IEC 60668-2-31:2008-02   Specification   IEC 60668-2-31:2008-02   Specification   II ms   Specification   Specification   II ms	Test duration per axis	2.5 h
Specification   IEC 60695-2-11-2014-02     Temperature	Test directions	X-, Y- and Z-axis
Temperature	Glow-wire test	
Mechanical strength / tumbling barrel	Specification	IEC 60695-2-11:2014-02
Acehanical strength / tumbling barrel	Temperature	850 °C
Specification   IEC 60068-2-31:2008-05     Height of fall   50 cm	Time of exposure	30 s
Height of fall   50 cm	lechanical strength / tumbling barrel	
Frequency   50   Shocks   Shocks   Specification   IEC 60068-2-27:2008-02   Pulse shape   Semi-sinusoidal   Semi-sinusoidal   Acceleration   50g   Shock duration   11 ms   Number of shocks per direction   20   Test directions   X-, Y- and Z-axis (pos. and neg.)   Set spray test   Specification   DIN EN 60068-2-11:2000-02   Test duration   96 h   Section   Specification   VDMA 24364:2018-05   Specification   VDMA 24364:2018-05   Specification   VDMA 24364:2018-05   Specification   Result   Test passed   Specification   IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08   Result   Specification   IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08   Result, degree of protection (IP code   IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K   Ambient conditions   IP69   Max. IP code to attain   IP69   Max. IP code to attain   IP69   Max. NEMA code to attain   IP69   Max. NEMA code to attain   IP69   Ambient temperature (operation)   -40 °C 100 °C   Ambient temperature (operation)   -40 °C 100 °C   Redata   Number of PCB holders   1	Specification	IEC 60068-2-31:2008-05
Shocks  Specification   IEC 60068-2-27:2008-02  Pulse shape   Semi-sinusoidal  Acceleration   50g  Shock duration   11 ms  Number of shocks per direction   20  Test directions   X-, Y- and Z-axis (pos. and neg.)  Salt spray test  Specification   DIN EN 60068-2-11:2000-02  Test duration   96 h  Fest for substances that would hinder coating with paint or varnish  Specification   VDMA 24364:2018-05  Result   Test passed  Degree of protection (IP code)  Specification   IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code   IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection   IP66/IP67/IP68/IP69  Max. IP code to attain   IP69  Max. IP code to attain   IP69  Max. NEMA code to attain   IP69  Ambient temperature (operation)   -40 °C 100 °C  Ambient temperature (storage/transport)   -40 °C 100 °C	Height of fall	50 cm
Specification   IEC 60068-2-27:2008-02	Frequency	50
Pulse shape  Acceleration  50g  Shock duration  11 ms  Number of shocks per direction  20  Test directions  X-, Y- and Z-axis (pos. and neg.)  Salt spray test  Specification  DIN EN 60068-2-11:2000-02  Test duration  96 h  Fest for substances that would hinder coating with paint or varnish  Specification  VDMA 24364:2018-05  Result  Test passed  Degree of protection (IP code)  Specification  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  Max. IP code to attain  Impact strength  Ambient temperature (operation)  Ambient temperature (storage/transport)  B data  Number of PCB holders  1 1	hocks	
Acceleration 50g Shock duration 11 ms Number of shocks per direction 20 Test directions X-, Y- and Z-axis (pos. and neg.)  Salt spray test Specification DIN EN 60068-2-11:2000-02 Test duration 96 h  Test for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed  Degree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions Degree of protection IP code IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Ambient temperature (operation) 40 °C 100 °C Ambient temperature (storage/transport) 40 °C 100 °C  B data Number of PCB holders 1	Specification	IEC 60068-2-27:2008-02
Shock duration 11 ms  Number of shocks per direction 20  Test directions X-, Y- and Z-axis (pos. and neg.)  Salt spray test Specification DIN EN 60068-2-11:2000-02  Test duration 96 h  Fest for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05  Result Test passed  Degree of protection (IP code)  Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69/IP69/IP69/IP69/IP69/IP69/IP69	Pulse shape	Semi-sinusoidal
Number of shocks per direction  Test directions  X-, Y- and Z-axis (pos. and neg.)  X-, Y- and Z-axis (pos. and neg.)  X-, Y- and Z-axis (pos. and neg.)  DIN EN 60068-2-11:2000-02  Test duration  DIN EN 60068-2-11:2000-02  Test duration  YDMA 24364:2018-05  Result  Test passed  Degree of protection (IP code)  Specification  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code  IPG6/IPG7 (1 m/30 min)/IPG8 (2 m/24 h)/IPG9/IPG9K  Ambient conditions  Degree of protection  IPG6/IPG7/IPG8/IPG9  Max. IP code to attain  IPG9  Max. NEMA code to attain  Impact strength  IK08  Ambient temperature (operation)  A0 °C 100 °C  Ambient temperature (storage/transport)  A0 °C 100 °C	Acceleration	50g
Test directions  X-, Y- and Z-axis (pos. and neg.)  Salt spray test  Specification  DIN EN 60068-2-11:2000-02  Test duration  96 h  Test for substances that would hinder coating with paint or varnish  Specification  VDMA 24364:2018-05  Result  Test passed  Degree of protection (IP code)  Specification  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  IP69  Max. IP code to attain  IP69  Max. NEMA code to attain  IP69  Max. NEMA code to attain  Impact strength  IK08  Ambient temperature (operation)  And "C 100 "C  Ambient temperature (storage/transport)  Ad "C 100 "C  B data  Number of PCB holders  1	Shock duration	11 ms
Specification DIN EN 60068-2-11:2000-02  Test duration 96 h  Test for substances that would hinder coating with paint or varnish  Specification VDMA 24364:2018-05  Result Test passed  Degree of protection (IP code)  Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain IP69  Max. NEMA code to attain IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C	Number of shocks per direction	20
Specification DIN EN 60068-2-11:2000-02 Test duration 96 h  Test for substances that would hinder coating with paint or varnish Specification VDMA 24364:2018-05 Result Test passed  Degree of protection (IP code) Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions Degree of protection IP code IP66/IP67/IP68/IP69 Max. IP code to attain IP69 Max. NEMA code to attain IP69 Max. NEMA code to attain IR98 Ambient temperature (operation) -40 °C 100 °C Ambient temperature (storage/transport) -40 °C 100 °C  B data Number of PCB holders 1	Test directions	X-, Y- and Z-axis (pos. and neg.)
Test duration 96 h  Test for substances that would hinder coating with paint or varnish  Specification VDMA 24364:2018-05  Result Test passed  Degree of protection (IP code)  Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain IP69  Max. NEMA code to attain IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C  B data  Number of PCB holders 1	alt spray test	
Test for substances that would hinder coating with paint or varnish  Specification  VDMA 24364:2018-05  Result  Test passed  Degree of protection (IP code)  Specification  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  IP66/IP67/IP68/IP69  Max. IP code to attain  IP69  Max. NEMA code to attain  Impact strength  IK08  Ambient temperature (operation)  Ambient temperature (storage/transport)  B data  Number of PCB holders  1	Specification	DIN EN 60068-2-11:2000-02
Specification  Result  Test passed  Degree of protection (IP code)  Specification  Result, degree of protection, IP code  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  IP66/IP67/IP68/IP69  Max. IP code to attain  IP69  Max. NEMA code to attain  Impact strength  IK08  Ambient temperature (operation)  Ambient temperature (storage/transport)  IB data  Number of PCB holders  1	Test duration	96 h
Result Test passed  Degree of protection (IP code)  Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain IP69  Max. NEMA code to attain IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C	est for substances that would hinder coating with paint or v	varnish
Degree of protection (IP code)  Specification  Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  IP66/IP67/IP68/IP69  Max. IP code to attain  IP69  Max. NEMA code to attain  Impact strength  Ik08  Ambient temperature (operation)  Ambient temperature (storage/transport)  B data  Number of PCB holders  IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  IP66/IP67/IP68/IP69  IP69  IR08  IP69  IK08  -40 °C 100 °C	Specification	VDMA 24364:2018-05
Specification IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 Result, degree of protection, IP code IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain 6  Impact strength IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C	Result	Test passed
Result, degree of protection, IP code  IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K  Ambient conditions  Degree of protection  IP66/IP67/IP68/IP69  Max. IP code to attain  IP69  Max. NEMA code to attain  Impact strength  IK08  Ambient temperature (operation)  Ambient temperature (storage/transport)  CB data  Number of PCB holders  IP66/IP67/IP68/IP69  IP69  IP69  IP69  IP69  IR08  IR08  IR08  IR08  IR09  I	regree of protection (IP code)	
Ambient conditions  Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain 6  Impact strength IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C	Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Degree of protection IP66/IP67/IP68/IP69  Max. IP code to attain IP69  Max. NEMA code to attain 6  Impact strength IK08  Ambient temperature (operation) -40 °C 100 °C  Ambient temperature (storage/transport) -40 °C 100 °C	Result, degree of protection, IP code	IP66/IP67 (1 m/30 min)/IP68 (2 m/24 h)/IP69/IP69K
Max. IP code to attain  Max. NEMA code to attain  Impact strength  Ik08  Ambient temperature (operation)  Ambient temperature (storage/transport)  Ikonom compared to attain  Ikonom co	mbient conditions	
Max. NEMA code to attain  Impact strength  Ik08  Ambient temperature (operation)  Ambient temperature (storage/transport)  B data  Number of PCB holders  6  Ik08  -40 °C 100 °C  -40 °C 100 °C  1	Degree of protection	IP66/IP67/IP68/IP69
Impact strength  Ambient temperature (operation)  Ambient temperature (storage/transport)  B data  Number of PCB holders  IK08  -40 °C 100 °C  -40 °C 100 °C	Max. IP code to attain	IP69
Ambient temperature (operation)  -40 °C 100 °C  Ambient temperature (storage/transport)  -40 °C 100 °C  B data  Number of PCB holders  1	Max. NEMA code to attain	6
Ambient temperature (storage/transport)  -40 °C 100 °C  B data  Number of PCB holders  1	Impact strength	IK08
B data Number of PCB holders  1	Ambient temperature (operation)	-40 °C 100 °C
Number of PCB holders 1	Ambient temperature (storage/transport)	-40 °C 100 °C
	B data	
	Number of PCB holders	1



1186435

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### Mounting

Mounting type	Screw locking mechanism
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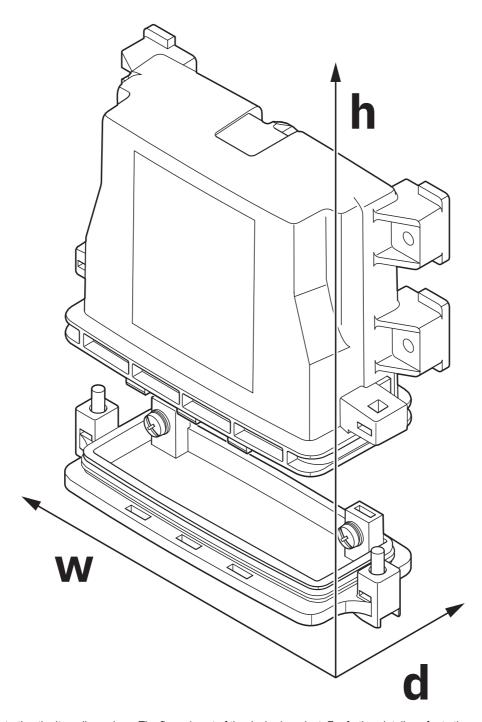


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## Drawings

#### Dimensional drawing



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.



1186435

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## Classifications

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		A.7.7

	ECLASS-13.0	27190603
ΕΊ	ГІМ	
	ETIM 9.0	EC002779
U	NSPSC	
	UNSPSC 21.0	31261500



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### Environmental product compliance

#### EU RoHS

20 1.01.0			
Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		

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