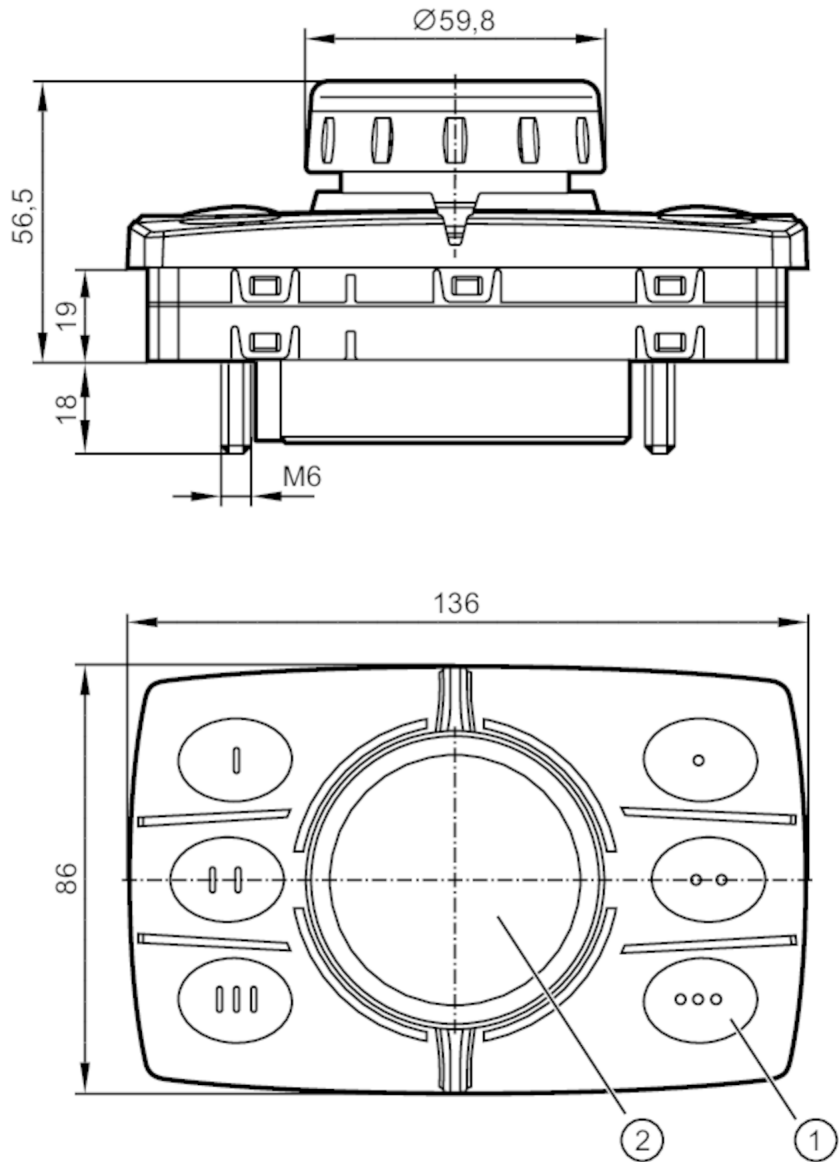


CR1300



Pushbutton module with knob with push and joystick function in two axes and with backlit keys

ecomatPanel/COP



- 1 Pushbuttons
- 2 knob



Product characteristics

Communication interface	CAN	
Operating elements	6	freely programmable backlit function keys
	1	rotary button with touch and joystick function in two axes
		24 stops per revolution

Application

Design	installation in panels or panel cutouts
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Electrical data

Operating voltage	[V]	9...32 DC
Nominal voltage DC	[V]	12 / 24



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Current consumption [mA]	< 400; (13,5 V DC)
Reverse polarity protection	yes

Interfaces

Communication interface	CAN
Number of CAN interfaces	1
CAN	
Protocol	J1939
Factory settings	Baud rate: 250
	node ID: 135

Operating conditions

Ambient temperature [°C]	-40...85
Storage temperature [°C]	-40...85
Max. relative air humidity [%]	90
Max. height above sea level [m]	4000
Protection	IP 65

Tests / approvals

EMC	UN/ECE-R10 Noise emission and noise interference:	100 V/m
	DIN EN 61000-6-2 ESD	
	DIN EN 61000-6-4 Burst	
	ISO 7637-2 pulse 1	severity level 4 / function state C (24 V)
	ISO 7637-2 pulse 2a	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 2b	severity level 4 / function state C (24 V)
	ISO 7637-2 pulse 3a	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 3b	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 4	severity level 4 / function state B (24 V)
	ISO 7637-2 pulse 5b	severity level 4 / function state A (24 V)
	ISO 7637-2 pulse 4	severity level 4 / function state B (12 V)
Continuous shock resistance	ISO 16750-3	30 g 6 ms / 24000 shocks
Fast temperature changes	EN 60068-2-30 damp heat: cyclical	55 °C upper temperature limit / 6 cycles
	EN 60068-2-78 damp heat: constant	40 °C 93 % rH / test period 21 days
Vibration resistance	ISO 16750-3 Test VII	random, mounting place car body
	EN 60068-2-6 sine	10...500 Hz / 10 cycles/axis, sine
Salt spray test	EN 60068-2-52 Salt spray	severity level 3 / motor vehicle
MTTF [years]		119

Mechanical data

Weight	[g]	459.6	
Weight (without accessories and packaging)	[g]	400	
Housing		rectangular	
Dimensions	[mm]	86 x 136 x 74.5	
Material		housing: PC/ABS; silicone coating: PA66 transparent	
Information on service life		Pushbuttons:	> 100000 activations
		knob (rotation by 360°):	> 100000 cycles
		knob (push function):	> 100000 activations
		knob (tilting per axis):	> 100000 activations

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Displays / operating elements		
Display		LED, multi-color
Operating elements	6	freely programmable backlit function keys
	1	rotary button with touch and joystick function in two axes
		24 stops per revolution
Remarks		
Pack quantity		1 pcs.
Electrical connection		



1	CAN_L
2	CAN_H
3	GNB
4	VBB