Zone

1 21 2 22

SKX ../E

IP 66

IK08

-20 +50

ATEX



- Enclosures in shock-resistant glass fiber reinforced polyester resin
- 7 basic enclosure sizes
- Fitted according to the customer's requirements
- Version with or without hinged door upon customer's demands

CONSTRUCTION

Enclosure: SMC glass fiber reinforced polyamide, color - black / blue
Cover: SMC glass fiber reinforced polyamide with integrated thermoplastic elastomer gasket, closes with four M5/M6 stainless steel screws.

TECHNICAL DATA

Certificate:	FIDI 19 ATEX 0056 , FIDI 19 ATEX 0057 EAC RU C-HR.HB07.B.00280/20
Marking:	CE 0722
Apparatus category:	II 2GD
Marking of explosion protection:	Ex eb IIC T6 Gb Ex ia/ib IIC T6 Gb Ex eb ia/ib IIC T6 Gb Ex tb IIIC T80° Db
Ambient temperature:	-20°C / -40°C ≤ T_a ≤+40°C/+50°C/+55°C [ATEX] -40ºC / -20ºC ≤ T_a ≤ +50ºC / +55ºC /+70ºC [EAC]
Degree of protection:	IP 66
Resistance to shock:	IK 08
Protection class :	I (protective earthing)
Rated voltage:	630 V
Nominal current:	Up to 125 A (depend on size and number of terminals)
Maximum safe voltage U_m for intrinsically safe circuits Exi:	60 V
PE terminals (inside of the enclosure):	max. 2x4 mm^2+2x2,5 mm^2 , 3x4 mm^2 , 2x6 mm^2
N/PE rails inside the enclosure:	2 pcs, 11 terminals 2x4mm^2 max.
Weight (without cable glands):	SKX 12/E ..... 0.5 kg SKX 13/E ..... 0,7 kg SKX 14/E ..... 1.0 kg SKX 15/E ..... 1.0 - 1,5 kg SKX 17/E ……3,8 kg SKX 18/E ..... 4,5 kg SKX 20/E ..... 7,0 kg

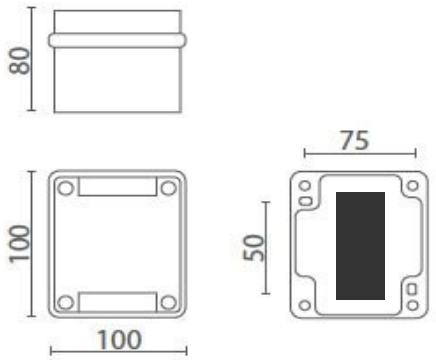
MOUNTING

With two/four screws through the housing holes ϕ6 mm at the peaks the rectangle:

SKX 12: 75 x 50 mm
SKX 13: 75 x 100 mm
SKX 14: 75 x 150 mm
SKX 15: 125 x 150 mm
SKX 17: 285 x 200 mm
SKX 18: 380 x 200 mm
SKX 20: 580 x 200 mm

Terminal box SKX 12/E

Nominal cross-section of conductor / terminal [mm^2]	Max. number of terminals	Max.ambient temp Ta °C	Imax [A]
4/4	5	40	20
		50	18
		55	17

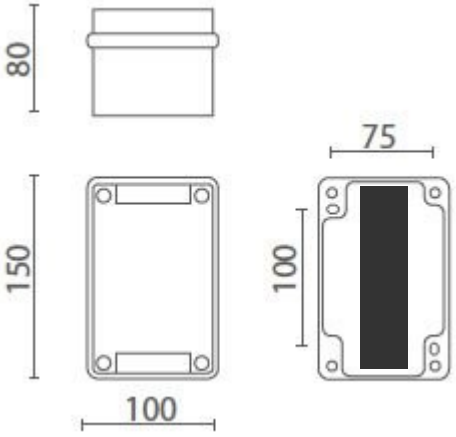


Max. number of cable entries (for plastic cable glands):

Cable gland / Side	M16	M20	M25
A-C	2	1	1
B-D	2	2	1

Terminal box SKX 13/E

Nominal cross-section of conductor / terminal [mm^2]	Max. number of terminals	Max.ambient temp Ta °C	Imax [A]
4/4	8	40	19
		50	17
		55	16
6/6	8	40	25
		50	22
		55	19

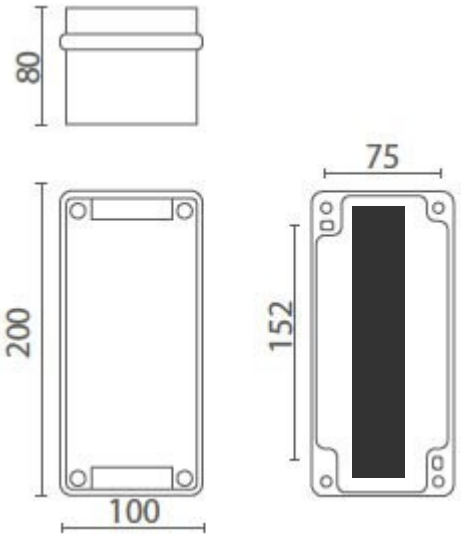


Max. number of cable entries (for plastic cable glands):

Cable gland / Side	M16	M20	M25
A-C	2	2	1
B-D	4	3	2

Terminal box SKX 14/E

Nominal cross-section of conductor / terminal [mm^2]	Max. number of terminals	Max.ambient temp Ta °C	Imax [A]
4/4	16	40	20
		50	18
		55	16
6/6	16	40	25
		50	22
		55	19



Max. number of cable entries (for plastic cable glands):

Cable gland / Side	M16	M20	M25	M32
A-C	2	2	1	1
B-D	6	4	3	2

All technical data is relevant at the time of print.

Terminal box SKX 15/E

Table of allowed number of terminals

Nominal cross-section of conductors / terminals [mm^2]	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5/2,5	2	-40°C ÷ +40 °C	18
2,5/2,5	4		16
2,5/2,5	24		13
2,5/2,5	28		12
2,5/2,5	2	-40°C ÷ +50 °C	16
2,5/2,5	4		14
2,5/2,5	24		11
2,5/2,5	28		10
2,5/2,5	2	-40°C ÷ +55 °C	15
2,5/2,5	4		13
2,5/2,5	24		10
2,5/2,5	28		9
4/4	4	-40°C ÷ +40 °C	21
4/4	8		18
4/4	24		16
4/4	4	-40°C ÷ +50 °C	18
4/4	8		16
4/4	24		14
4/4	4	-40°C ÷ +55 °C	17
4/4	8		15
4/4	24		12
6/6	2	-40°C ÷ +40 °C	36
6/6	4		32
6/6	8		22
6/6	16		20
6/6	2	-40°C ÷ +50 °C	30
6/6	4		26
6/6	8		19
6/6	16		17
6/6	2	-40°C ÷ +55 °C	26
6/6	4		23
6/6	8		16
6/6	16		14
10/10	2	-40°C ÷ +40 °C	50
10/10	4		45
10/10	8		37
10/10	12		33
10/10	2	-40°C ÷ +50 °C	42
10/10	4		37
10/10	8		30
10/10	12		26
10/10	2	-40°C ÷ +55 °C	38
10/10	4		34
10/10	8		27
10/10	12		23
16/16	2	-40°C ÷ +40 °C	66
16/16	4		58
16/16	8		55
16/16	12		50
16/16	2	-40°C ÷ +50 °C	58
16/16	4		50
16/16	8		45
16/16	12		40
16/16	2	-40°C ÷ +55 °C	52
16/16	4		45
16/16	8		40
16/16	12		35

Table of allowed number of terminals

Nominal cross-section of conductors / terminals [mm^2]	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
25/25	2	-40°C ÷ +40 °C	80
25/25	4		70
25/25	8		60
25/25	2	-40°C ÷ +50 °C	70
25/25	4		60
25/25	8		50
25/25	2	-40°C ÷ +55 °C	60
25/25	4		50
25/25	8		40
35/35	2	-40°C ÷ +40 °C	109
35/35	4		80
35/35	2	-40°C ÷ +50 °C	95
35/35	4		70
35/35	2	-40°C ÷ +55 °C	85
35/35	4		60

Nominal cross-section of conductor / terminal [mm^2]	2,5/2,5	4/4	6/6	10/10	16/16	25/25	35/35
The maximum number of terminals	28 + busbar 22PE	24	16	14	12	8	4
Width of terminal [mm]	5	6	7	10	12	12	15
Allowed number of conductors per terminal	1x2.5-1.5 mm^2	1 x4-1.5 mm^2	1 x6-1.5 mm^2	1 x10-2.5 mm^2	1 x16-2.5 mm^2	1 x 25-6 mm^2	1 x 35-6 mm^2
Width of PE terminal [mm]	6	6	8	10	12	16	16
Width of final terminal [mm]	9						
Space for a terminal on DIN rail without end terminals	max. 140 mm						

1) Two conductors are connected on one terminal
2) PE conductors and jumpers are not taken in the calculation

It is possible to connect on one terminal smaller nominal cross-section conductors, but the maximum number of conductors and maximum current for the nominal wire size must be respected according to “Table of permitted installation”.
Combination of many different nominal cross-section terminals and conductors in one terminal box is allowed. Possible combinations are calculated on the basis of the “Table of permitted installation” so that the total maximum losses and the possibility of a physical installation is possible.

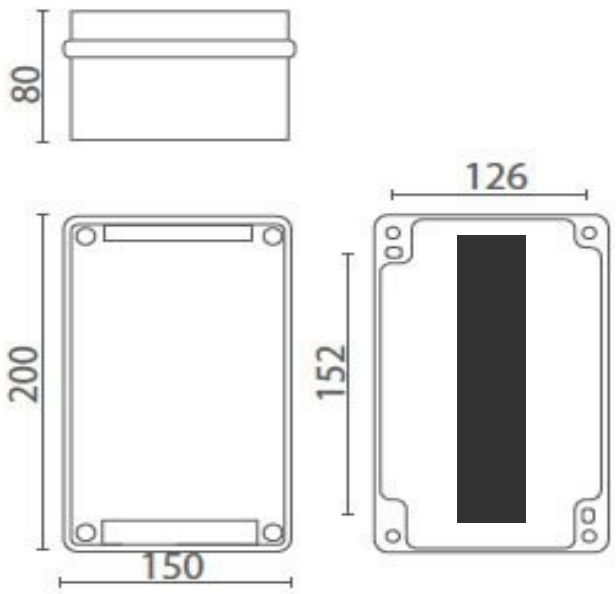
Max. number of cable entries (for plastic cable glands):

Side \ Cable gland	M16	M20	M25	M32
A-C	4	3	2	1
B-D	6	4	3	2

Side \ Cable gland	M16	M20	M25	M32
A-C	4	3	2	1
B-D	5	3	3	0

*with N/PE rails

DIMENSIONS [mm]



All technical data is relevant at the time of print.

Terminal box SKX 17/E

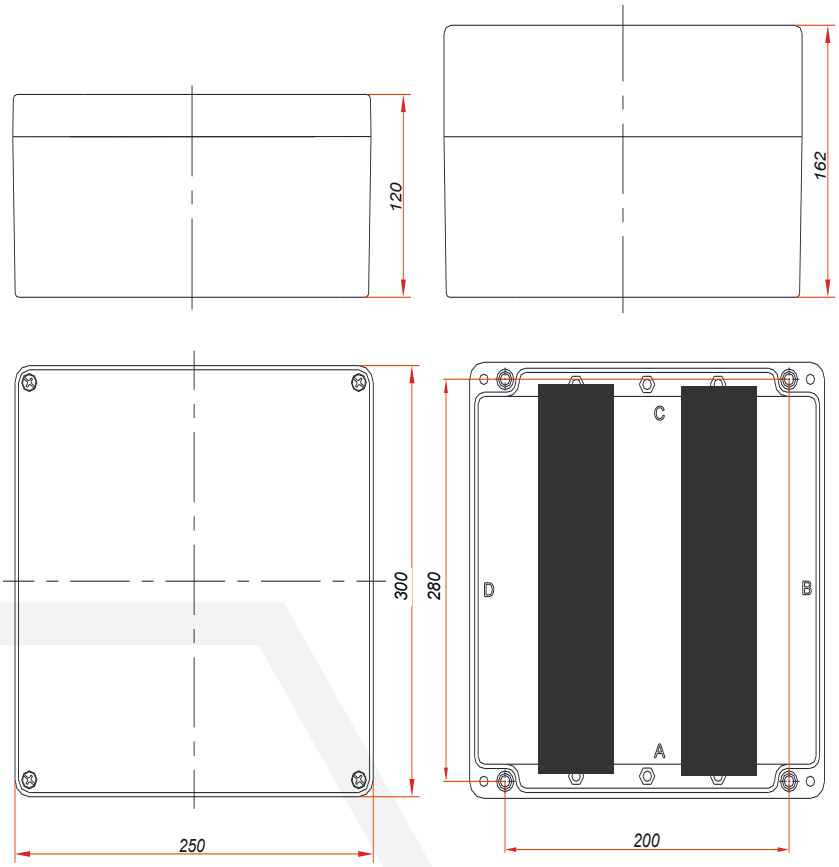
Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	70	-20°C ÷ +40 °C	9
2,5 / 2,5	36		13
2,5 / 2,5	4		18
2,5 / 2,5	70	-20°C ÷ +50 °C	8
2,5 / 2,5	36		11
2,5 / 2,5	4		16
4 /4	61	-20°C ÷ +40 °C	13
4 /4	30		18
4 /4	4		26
4 /4	61	-20°C ÷ +50 °C	11
4 /4	30		16
4 /4	4		22
6 / 6	40	-20°C ÷ +40 °C	18
6 / 6	22		26
6 / 6	4		35
6 / 6	40	-20°C ÷ +50 °C	16
6 / 6	22		22
6 / 6	4		31
10 /10	37	-20°C ÷ +40 °C	26
10 /10	17		40
10 /10	4		48
10 /10	37	-20°C ÷ +50 °C	22
10 /10	17		34
10 /10	4		40
16 / 16	27	-20°C ÷ +40 °C	38
16 / 16	15		52
16 / 16	4		65
16 / 16	27	-20°C ÷ +50 °C	32
16 / 16	15		45
16 / 16	4		56
25 / 25	24	-20°C ÷ +40 °C	52
25 / 25	15		65
25 / 25	4		86
25 / 25	24	-20°C ÷ +50 °C	45
25 / 25	15		56
25 / 25	4		74
35 / 35	16	-20°C ÷ +40 °C	65
35 / 35	10		90
35 / 35	4		105
35 / 35	16	-20°C ÷ +50 °C	56
35 / 35	10		80
35 / 35	4		90
50 /50	14	-20°C ÷ +40 °C	90
50 /50	4		120
50 /50	11	-20°C ÷ +50 °C	80
50 /50	4		105

Max. number of cable entries:

Side \ Cable gland	M20	M25	M32	M40	M50	M63
B-D	11	9	5	4	3	2
A-C	9	7	3	3	2	2

DIMENSIONS [mm]





All technical data is relevant at the time of print.

Terminal box SKX 18/E

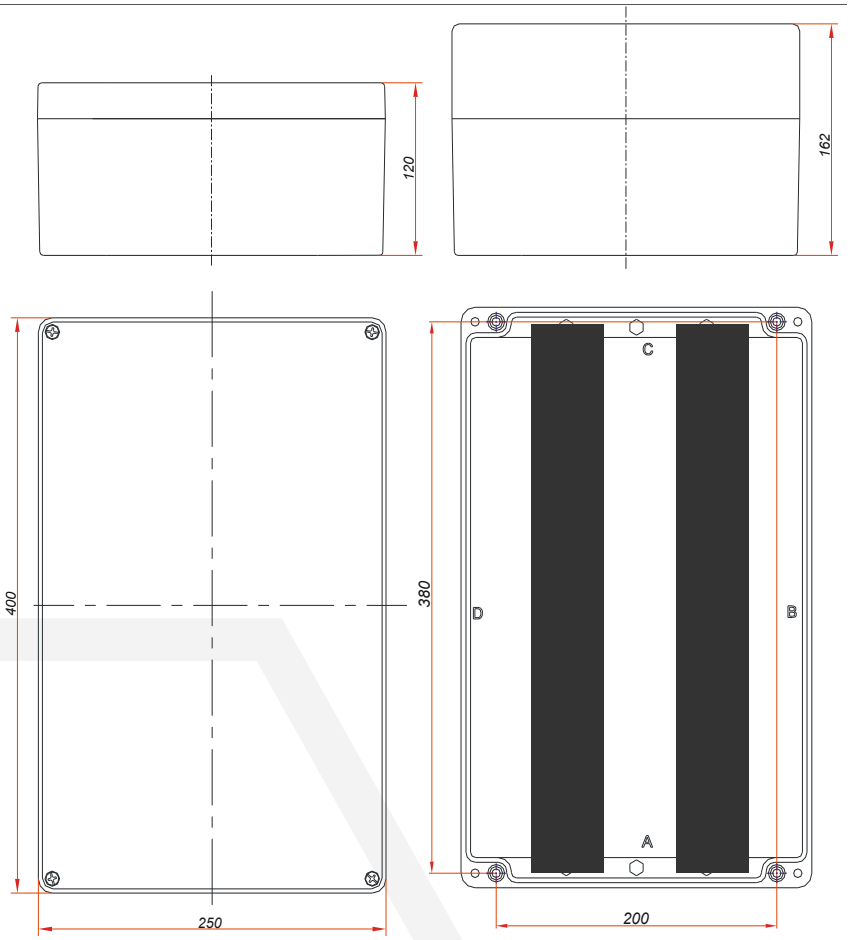
Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	180	-20°C ÷ +40 °C	9
2,5 / 2,5	64		12
2,5 / 2,5	4		16
2,5 / 2,5	108	-20°C ÷ +50 °C	8
2,5 / 2,5	64		10
2,5 / 2,5	4		14
4 /4	103	-20°C ÷ +40 °C	12
4 /4	54		16
4 /4	4		23
4 /4	103	-20°C ÷ +50 °C	10
4 /4	54		14
4 /4	4		20
6 / 6	83	-20°C ÷ +40 °C	16
6 / 6	40		23
6 / 6	4		34
6 / 6	83	-20°C ÷ +50 °C	14
6 / 6	40		20
6 / 6	4		30
10 /10	68	-20°C ÷ +40 °C	23
10 /10	32		34
10 /10	4		48
10 /10	68	-20°C ÷ +50 °C	20
10 /10	32		30
10 /10	4		42
16 / 16	48	-20°C ÷ +40 °C	34
16 / 16	26		48
16 / 16	4		60
16 / 16	48	-20°C ÷ +50 °C	30
16 / 16	26		42
16 / 16	4		50
25 / 25	40	-20°C ÷ +40 °C	48
25 / 25	26		60
25 / 25	4		80
25 / 25	40	-20°C ÷ +50 °C	42
25 / 25	26		50
25 / 25	4		70
35 / 35	36	-20°C ÷ +40 °C	60
35 / 35	20		80
35 / 35	4		105
35 / 35	36	-20°C ÷ +50 °C	50
35 / 35	20		70
35 / 35	4		90
50 /50	26	-20°C ÷ +40 °C	80
50 /50	16		110
50 /50	4		125
50 /50	26	-20°C ÷ +50 °C	70
50 /50	16		95
50 /50	4		100

Max. number of cable entries:

Side / Cable gland	M20	M25	M32	M40	M50	M63
B-D	17	15	9	6	5	4
A-C	9	7	3	3	2	2

DIMENSIONS [mm]



Terminal box SKX 20/E

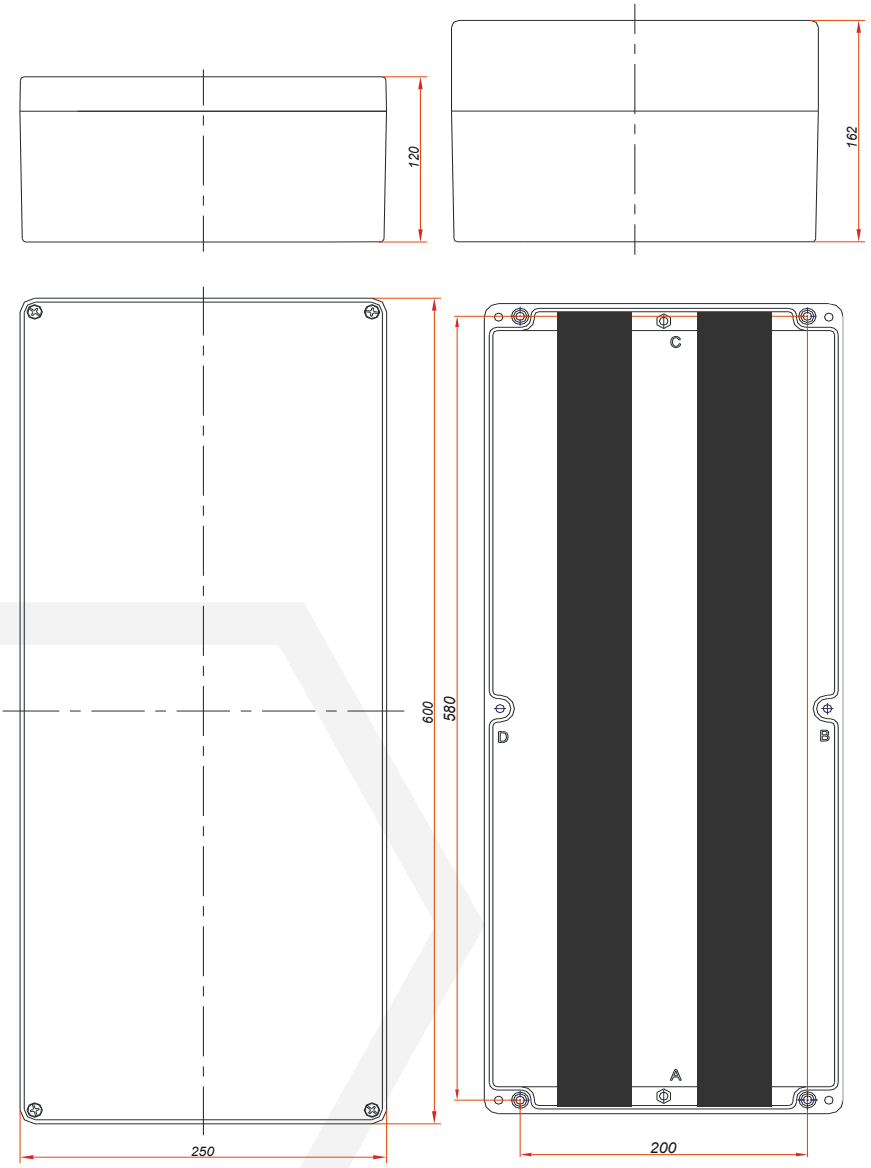
Table of allowed number of terminals

Nominal cross section of conductors / terminals (mm^2)	Maximum number of terminals	Ambient temperature Ta[°C]	Imax [A]
2,5 / 2,5	200	-20°C ÷ +40 °C	6
2,5 / 2,5	126		9
2,5 / 2,5	78		12
2,5 / 2,5	4		16
2,5 / 2,5	126	-20°C ÷ +50 °C	8
2,5 / 2,5	78		10
2,5 / 2,5	4		14
4 /4	180	-20°C ÷ +40 °C	9
4 /4	122		12
4 /4	66		16
4 /4	4		23
4 /4	122	-20°C ÷ +50 °C	10
4 /4	66		14
4 /4	4		20
6 / 6	98	-20°C ÷ +40 °C	16
6 / 6	48		23
6 / 6	4		34
6 / 6	98	-20°C ÷ +50 °C	14
6 / 6	48		20
6 / 6	4		30
10 /10	80	-20°C ÷ +40 °C	23
10 /10	36		34
10 /10	4		48
10 /10	80	-20°C ÷ +50 °C	20
10 /10	36		30
10 /10	4		42
16 / 16	58	-20°C ÷ +40 °C	34
16 / 16	29		48
16 / 16	4		60
16 / 16	58	-20°C ÷ +50 °C	30
16 / 16	29		42
16 / 16	4		50
25 / 25	46	-20°C ÷ +40 °C	48
25 / 25	30		60
25 / 25	4		80
25 / 25	46	-20°C ÷ +50 °C	42
25 / 25	30		50
25 / 25	4		70
35 / 35	41	-20°C ÷ +40 °C	60
35 / 35	23		80
35 / 35	4		105
35 / 35	41	-20°C ÷ +50 °C	50
35 / 35	23		70
35 / 35	4		90
50 /50	33	-20°C ÷ +40 °C	80
50 /50	18		110
50 /50	4		125
50 /50	33	-20°C ÷ +50 °C	70
50 /50	18		95
50 /50	4		100

Max. number of cable entries:

Side / Cable gland	M20	M25	M32	M40	M50	M63
B-D	24	22	12	8	6	6
A-C	9	7	3	3	2	2

DIMENSIONS [mm]



All technical data is relevant at the time of print.