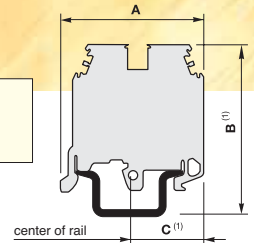


Characteristics

(1) Dimensions are on DIN 3 rail : PR4 (Height 15 mm)
 Use of a PR3 rail : remove 7,5 mm on dimension B
 Use of a DIN 1 rail : remove 2,5 mm on dimension B
 remove 5 mm on dimension C



ADO blocks

Type	Spacing (mm)	Dimensions			Connection wire size				Current (A)	Electrical characteristics			Operating	
		A (mm)	B (mm)	C (mm)	Solid wire (AWG) screw clamp	Stranded wire (AWG) screw clamp	Solid wire A.D.O. (AWG)	Stranded wire A.D.O. (AWG)		Rated voltage (V)	Pulse voltage (kV)	Wire stripping length (mm) ①	Recomm. screwdriver (mm)	Torque (Nm)
D 2.5/5.ADO	5	45	56	23	22 - 12	22 - 12	24 - 18	24 - 18	7	600	8	9.5	3.5	0.4 - 0.6
D 4/6...ADO	6	45	56	23	24 - 10	24 - 10	22 - 16	22 - 16	18	600	8	9.5	4	0.5 - 0.8
D 6/8...ADO	8	45	56	23	24 - 8	24 - 8	14 - 12	14 - 12	25	600	8	12	4 - 5	0.8 - 1
D 6/8.ADO3	8	45	56	23	24 - 8	24 - 8	14 - 12	14 - 12	30	600	8	12	4 - 5	0.8 - 1
D 1/5.ADO	5	45.5	56	24	—	—	24 - 18	24 - 18	7	600	8	—	—	—
D 1.5/6...ADO	6	45.5	56	24	—	—	22 - 16	22 - 16	18	600	8	—	—	—
D 2.5/8...ADO	8	45.5	56	24	—	—	16 - 14	16 - 14	25	600	8	—	—	—
D 4/8...ADO	8	45.5	56	24	—	—	14 - 12	14 - 12	25	600	8	—	—	—
D 2.5/5.PADO	5	50	56	25	22 - 12	22 - 12	24 - 18	24 - 18	120A/1s	—	—	9.5	3.5	0.4 - 0.6
D 4/6.PADO	6	50	56	25	22 - 10	22 - 10	22 - 16	22 - 16	180A/1s	—	—	9.5	4	0.5 - 0.8
D 6/8.PADO	8	50	56	25	22 - 8	22 - 8	16 - 14	16 - 14	300A/1s	—	—	12	4 - 5	0.8 - 1
D 6/8.PADO3	8	50	56	25	22 - 8	22 - 8	14 - 12	14 - 12	480A/1s	—	—	12	4 - 5	0.8 - 1
D 1/5.PADO	5	50	56	25	—	—	24 - 18	24 - 18	120A/1s	—	—	—	—	—
D 1.5/6.PADO	6	50	56	25	—	—	22 - 16	22 - 16	180A/1s	—	—	—	—	—
D 2.5/8.PADO	8	50	56	25	—	—	16 - 14	16 - 14	300A/1s	—	—	—	—	—
D 4/8.PADO	8	50	56	25	—	—	14 - 12	14 - 12	480A/1s	—	—	—	—	—
D 4/6.D2.ADO	6	85.5	83	45	22 - 10	22 - 10	22 - 6	22 - 6	7	300	6	9.5	4	0.5 - 0.8
D 6/8.D2.ADO	8	85.5	83	45	Consult factory	Consult factory	Consult factory	Consult factory	—	—	8	12	4 - 4.5	0.8 - 1
D 1.5/6.D2.ADO	6	93	83	52.5	Consult factory	Consult factory	22 - 16	22 - 16	18	300	6	—	—	—
D 2.5/5.SN.ADO	5	55	59.5	22 - 12	22 - 12	24 - 18	24 - 18	5	300	4	9.5	3.5	0.4 - 0.6	—
D 4/6.SN.ADO	6	55	59.5	23	22 - 10	22 - 10	22 - 16	22 - 16	10	600	6	9.5	4	0.5 - 0.8
D 4/8.SN.ADO	8	55	59.5	23	22 - 10	22 - 10	16 - 14	16 - 14	15	600	6	9.5	4	0.5 - 0.8
D 1/5.SNT2.ADO	5	68.5	59.5	37	—	—	24 - 18	24 - 18	5	300	4	—	—	—
D 1.5/6.SNT2.ADO	6	68.5	59.5	37	—	—	22 - 16	22 - 16	8	600	6	—	—	—
D 2.5/8.SNT2.ADO	8	68.5	59.5	37	—	—	16 - 14	16 - 14	15	600	6	—	—	—
D 4/8.SF.I.ADO	8	68.5	94	25.5	22 - 10	22 - 10	22 - 16	22 - 16	10	600	8	9.5	4	0.5 - 0.8
D 4/8.SNN.I.ADO	8	68.5	94	56	22 - 10	22 - 10	16 - 14	16 - 14	10	600	8	9.5	4	0.5 - 0.8
D 4/8.SF.I.ADO2	8	68.5	66	25.5	22 - 10	22 - 10	16 - 14	16 - 14	10	600	8	9.5	4	0.5 - 0.8
D 4/8.SNN.I.ADO2	8	68.5	56	25.5	22 - 10	22 - 10	16 - 14	16 - 14	10	600	8	9.5	4	0.5 - 0.8
D 1.5/8.SFT.ADO	8	80.5	56	43	—	—	22 - 16	22 - 16	8	600	8	—	—	—
D 1.5/8.SNNT.ADO	8	80.5	56	43	—	—	16 - 14	16 - 14	10	600	8	—	—	—
D 2.5/8.SFT.ADO2	8	80.5	56	43	—	—	16 - 14	16 - 14	10	600	8	—	—	—
D 2.5/8.SNNT.ADO2	8	80.5	56	43	—	—	16 - 14	16 - 14	10	600	8	—	—	—
D 1/5.C2.ADO	5	51	76.5	23	Consult factory	Consult factory	Consult factory	Consult factory	13.5	250	8	—	—	—
D 1/5.C3.ADO	5	67.5	76.5	48	Consult factory	Consult factory	Consult factory	Consult factory	13.5	250	8	—	—	—
D 1/5.C4.ADO	5	80	97	48	Consult factory	Consult factory	Consult factory	Consult factory	13.5	250	8	—	—	—

Power terminal blocks

Type	Spacing (mm)	Dimensions			Connection wire size				Rated current (A)	Electrical characteristics			Operating	
		A (mm)	B (mm)	C (mm)	Solid wire lug (AWG)	Stranded wire lug (AWG)	Solid wire screw clamp (AWG)	Stranded wire screw clamp (AWG)		Rated voltage (V)	Pulse voltage (kV)	Wire stripping length (mm)	Clamping key (mm)	Torque (Nm)
D 35/27.FF	27	113	66.5	56.5	1	1	—	—	125	600	8	—	H 10	3
D 70/32.FF	32	140	74.5	70	000	000	—	—	170	600	8	—	H 13	6
D 120/42.FF	42	140	84	70	300 MCM	300 MCM	—	—	269	600	8	—	H 17	10
D 185/55.FF	55	163	97.5	81.5	500 MCM	500 MCM	—	—	353	600	8	—	H 19	14
D 300/55.FF	55	163	106.5	81.5	1000 MCM	1000 MCM	—	—	460	600	8	—	H 24	25
D 35/27.AF	27	136.5	90	56.5	—	12 - 1	—	12 - 1	130	600	8	28	H 10 / 5 ②	3 / 3
D 70/32.AF	32	165	113.5	70	—	10 - 000	—	10 - 000	165	600	8	33	H 13 / 6 ②	6 / 8
D 120/42.AF	42	197	137.5	70	—	10 - 300 MCM	—	10 - 300 MCM	240	600	8	38	H 17 / 8 ②	10 / 10
D 185/55.AF	55	228.5	159.5	81.5	—	4 - 500 MCM	—	4 - 500 MCM	320	600	8	47	H 19 / 10 ②	14 / 14

① Wire size comply with CEI 60947 - 7 - 1 standard.
 ② Allen key 6 flats hollow







ADO connection

- Wire size up to 8 AWG (screw clamp) and 12 AWG (ADO)
- Mounting allowed on symmetrical rail (DIN 3)
- Using temperature -40° to +110°C
- Without halogen nor cadmium
- 2 wires of same gage and nature per ADO connection







Feed through terminal blocks ADO - Screw clamp

Block	Rated wire size	Spacing	Rated current	Part/number	End section	IP20 Jumper bar
 D 2,5/5.ADO	22-12 AWG screw 24-18 AWG ADO	5 mm	7 A	Grey 0199 554.23 Blue 0199 556.25 Orange 0199 555.24 ①	Grey 0199 336.20 Blue 0199 338.02	2 poles 0199 227.23 3 poles 0199 228.04 4 poles 0199 298.03 5 poles 0199 299.04 10 poles 0199 443.24
 D 4/6... .ADO	22-10 AWG screw 22-16 AWG ADO	6 mm	18 A	Grey 0199 034.15 Blue 0199 036.17 Orange 0199 035.16 ①	Grey 0199 336.20 Blue 0199 338.02	2 poles 0299 694.04 3 poles 0299 695.05 4 poles 0299 696.06 5 poles 0299 697.07 10 poles 0299 702.14
 D 6/8... .ADO	22-8 AWG screw 16-14 AWG ADO	8 mm	25 A	Grey 0199 042.25 Blue 0199 044.27 Orange 0199 043.26 ①	Grey 0199 336.20 Blue 0199 338.02	2 poles 0299 712.05 3 poles 0299 713.06 4 poles 0299 714.07 5 poles 0299 715.00 10 poles 0299 720.11
 D 6/8.ADO3	22-8 AWG screw 14-12 AWG ADO	8 mm	25 A	Grey 0399 245.15 Blue 0399 319.17 Orange 0399 800.17	Grey 0199 336.20 Blue 0199 338.02	2 poles 0299 712.05 3 poles 0299 713.06 4 poles 0299 714.07 5 poles 0299 715.00 10 poles 0299 720.11



Feed through terminal blocks ADO - ADO




Block	Rated wire size	Spacing	Rated current	Part/number	End section	IP20 Jumper bar
 D 1/5.ADO	24-18 AWG	5 mm	7 A	Grey 0199 563.24 Blue 0199 565.26 Orange 0199 564.25 ①	Grey 0199 341.05 Blue 0199 338.02	2 poles 0199 227.23 3 poles 0199 228.04 4 poles 0199 298.03 5 poles 0199 299.04 10 poles 0199 443.24
 D 1,5/6... .ADO	22-16 AWG	6 mm	18 A	Grey 0199 051.26 Blue 0199 053.20 Orange 0199 052.27 ①	Grey 0199 341.05 Blue 0199 338.02	2 poles 0299 694.04 3 poles 0299 695.05 4 poles 0299 696.06 5 poles 0299 697.07 10 poles 0299 702.14
 D 2,5/8... .ADO	16-14 AWG	8 mm	25 A	Grey 0199 059.06 Blue 0199 061.20 Orange 0199 060.03 ①	Grey 0199 341.05 Blue 0199 338.02	2 poles 0299 712.05 3 poles 0299 713.06 4 poles 0299 714.07 5 poles 0299 715.00 10 poles 0299 720.11
 D 4/8.ADO	14-12 AWG	8 mm	25 A	Grey 0399 244.14 Blue 0399 318.16 Orange 0399 801.04	Grey 0199 341.05 Blue 0199 338.02	2 poles 0299 712.05 3 poles 0299 713.06 4 poles 0299 714.07 5 poles 0299 715.00 10 poles 0299 720.11

① Other colors available. Consult factory.

ADO connection







Ground terminal blocks ADO - Screw clamp

Block	Rated wire size	Spacing	Short circuit current	Part/number	End section
 D 2,5/5.P.ADO	22-12 AWG screw 24-18 AWG ADO	5 mm	120 A/1 s.	Green/Yellow 0399 030.05	Grey 0199 336.20
					Yellow 0199 339.03
 D 4/6.P.ADO	22-10 AWG screw 22-16 AWG ADO	6 mm	180 A/1 s.	Green/Yellow 0199 050.01	Grey 0199 336.20
					Yellow 0199 339.03
 D 6/8.P.ADO	22-8 AWG screw 16-14 AWG ADO	8 mm	300 A/1 s.	Green/Yellow 0199 118.26	Grey 0199 336.20
					Yellow 0199 339.03
 D 6/8.P.ADO3	22-8 AWG screw 14-12 AWG ADO	8 mm	480 A/1 s.	Green/Yellow 0399 251.13	Grey 0199 336.20
					Yellow 0199 339.03





Ground terminal blocks ADO - ADO

Block	Rated wire size	Spacing	Short circuit current	Part/number	End section
 D 1/5.P.ADO	24-18 AWG	5 mm	120 A/1 s.	Green/Yellow 0399 031.22	Grey 0199 341.05
					Yellow 0199 343.07
 D 1,5/6.P.ADO	22-16 AWG	6 mm	180 A/1 s.	Green/Yellow 0199 098.26	Grey 0199 341.05
					Yellow 0199 343.07
 D 2,5/8.P.ADO	16-14 AWG	8 mm	300 A/1 s.	Green/Yellow 0199 091.17	Grey 0199 341.05
					Yellow 0199 343.07
 D 4/8.P.ADO	14-12 AWG	8 mm	480 A/1 s.	Green/Yellow 0399 250.26	Grey 0199 341.05
					Yellow 0199 343.07




ADO connection

Double deck terminal blocks ADO - Screw clamp

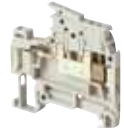
Block	Rated wire size	Spacing	Rated current	Part/number	End section	IP20 Jumper bar
 D 4/6.D2.ADO	22-10 AWG screw 22-16 AWG ADO	6 mm	18 A	Grey 0199 242.02 Blue 0199 244.04 Orange 0199 243.03	Grey 0199 417.12	2 poles 0299 694.04 3 poles 0299 695.05 4 poles 0299 696.06 5 poles 0299 697.07 10 poles 0299 702.14
 D 6/8.D2.ADO	Consult factory	8 mm	Consult factory	Grey 0399 600.26 Blue 0399 602.14	Grey 0199 417.12	2 poles 0299 712.05 3 poles 0299 713.06 4 poles 0299 714.07 5 poles 0299 715.00 10 poles 0299 720.11




Double deck terminal blocks ADO - ADO



Block	Rated wire size	Spacing	Rated current	Part/number	End section	IP20 Jumper bar
 D 1,5/6.D2.ADO	22-16 AWG	6 mm	18 A	Grey 0199 480.26 Blue 0199 482.14 Orange 0199 481.13	Grey 0199 476.25	2 poles 0299 694.04 3 poles 0299 695.05 4 poles 0299 696.06 5 poles 0299 697.07 10 poles 0299 702.14




Switch terminal blocks ADO - Screw clamp



Block	Rated wire size	Spacing	Rated current	Part/number	End section
 D 2,5/5.SN.ADO	22-12 AWG screw 24-18 AWG ADO	5 mm	10 A	Grey 0399 226.02 Orange 0399 227.03 With test DIA. 2 mm Grey 0399 228.14 Orange 0399 229.15	Grey 0199 352.00 Orange 0199 353.01
 D 4/6.SN.ADO	22-10 AWG screw 22-16 AWG ADO	6 mm	10 A	Grey 0199 107.24 Orange 0199 108.05 With test DIA. 2 mm Grey 0199 235.23 Orange 0199 236.24	Grey 0199 352.00 Orange 0199 353.01 Grey 0199 352.00 Orange 0199 353.01
 D 4/8.SN.ADO	22-10 AWG screw 16-14 AWG ADO	8 mm	15 A	Grey 0199 137.11 Orange 0199 138.22 With test DIA. 2 mm Grey 0199 139.23 Orange 0199 140.00	Grey 0199 352.00 Orange 0199 353.01 Grey 0199 352.00 Orange 0199 353.01

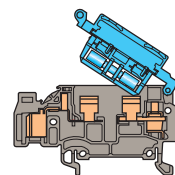
Switch terminal blocks ADO - ADO

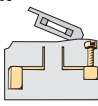
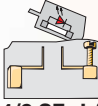
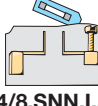
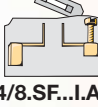
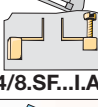



Block	Rated wire size	Spacing	Rated current	Part/number	End section
 D 1/5.SNT2...ADO	24-18 AWG	5 mm	10 A	Grey 0399 231.07 Orange 0399 232.00	Grey 0199 354.02 Orange 0199 355.03
 D 1,5/6.SNT2...ADO	22-16 AWG	6 mm	10 A	Grey 0199 144.20 Blue 0199 591.11 Orange 0199 145.21	Grey 0199 354.02 Orange 0199 355.03
 D 2,5/8.SNT2...ADO	16-14 AWG	8 mm	15 A	Grey 0199 231.27 Orange 0199 232.20	Grey 0199 354.02 Orange 0199 355.03

ADO connection

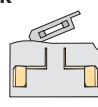
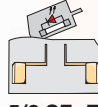

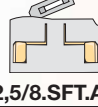
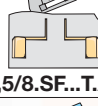

Fuse holder terminal blocks 5x20 and 5x25 ADO - Screw clamp



Block	Rated wire size	Spacing	Rated current	Part/number	End section
 D 4/8.SF...I.ADO	22-10 AWG screw 22-16 AWG ADO	8 mm	10A	Grey 0399 785.03 Orange 0399 786.04 With DIA. 2 mm screw test socket : Grey 0399 777.12	Grey 0399 758.27
 D 4/8.SF...I.ADO	22-10 AWG screw 22-16 AWG ADO	8 mm	10A	With indicator 110-230 V : Grey 0399 780.12 With indicator 24 V : Grey 0399 781.07	Grey 0399 758.27
 D 4/8.SNN.I.ADO	22-10 AWG screw 22-16 AWG ADO	8 mm	10 A	With disconnect link bar : Grey 0399 778.23	Grey 0399 758.27
 D 4/8.SF...I.ADO2	22-10 AWG screw 16-14 AWG ADO	8 mm	10A	Grey 0399 763.14 Orange 0399 764.15 With DIA. 2 mm screw test socket : Grey 0399 762.13	Grey 0399 758.27
 D 4/8.SF...I.ADO2	22-10 AWG screw 16-14 AWG ADO	8 mm	10A	With indicator 110-230 V : Grey 0399 767.10 With indicator 24 V : Grey 0399 769.22	Grey 0399 758.27
 D 4/8.SNN.I.ADO2	22-10 AWG screw 16-14 AWG ADO	8 mm	10 A	With disconnect link bar : Grey 0399 765.16	Grey 0399 758.27

Fuse holder terminal blocks 5x20 and 5x25 ADO - ADO






Block	Rated wire size	Spacing	Rated current	Part/number	End section
 D 1,5/8.SFT.ADO	22-16 AWG	8 mm	8 A	Grey 0199 208.11 ① Orange 0199 209.12 ①	Grey 0199 382.27
 D 1,5/8.SF...T.ADO	22-16 AWG	8 mm	8 A	With indicator 110-230 V : Grey 0199 211.23 ① With indicator 24 V : Grey 0199 212.24 ①	Grey 0199 382.27
 D 1,5/8.SNNT.ADO	22-16 AWG	8 mm	8 A	With disconnect link bar : Grey 0199 210.06 ①	Grey 0199 382.27
 D 2,5/8.SFT.ADO2	16-14 AWG	8 mm	10 A	Grey 0199 184.11 ① Orange 0199 185.12 ①	Grey 0199 382.27
 D 2,5/8.SF...T.ADO2	16-14 AWG	8 mm	10 A	With indicator 110-230 V : Grey 0199 187.14 ① With indicator 24 V : Grey 0199 188.25 ①	Grey 0199 382.27
 D 2,5/8.SNNT.ADO2	16-14 AWG	8 mm	10 A	With disconnect link bar : Grey 0199 186.13 ①	Grey 0199 382.27

① With dia. 2 or dia. 2.3 mm screw test socket.



ADO connection

Sensors/actuators terminal blocks ADO - ADO

Block	Rated wire size (IEC)	Spacing	Rated current	Part/number	End section	IP20 Jumper bar
 D 1/5.C2.ADO	1 mm ²	5 mm	13.5 A	Standard : Grey 0399 686.00 With 24V LED (Green) : Grey 0399 687.01	Right + Left Grey 0399 677.16	Blue : 10 poles 0399 684.06 66 poles 0399 708.26
 D 1/5.C3.ADO	1 mm ²	5 mm	13.5 A	Standard : Grey 0399 689.13 With 24V LED (Green) : Grey 0399 690.10	Right + Left Grey 0399 678.27	Red : 10 poles 0399 683.05 66 poles 0399 707.15
 D 1/5.C4.ADO	1 mm ²	5 mm	13.5 A	Standard : Grey 0399 692.06 With 24V LED (Green) : Grey 0399 693.07	Right + Left Grey 0399 679.20	Green/Yellow : 10 poles 0399 685.07 66 poles 0399 709.27

Insulation displacement connection = A.D.O.

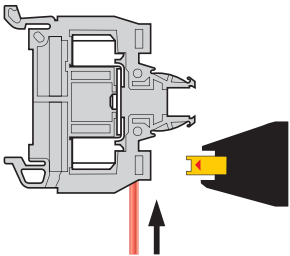


- Connection time savings
- Connection security
- Vibration proof
- Corrosion proof

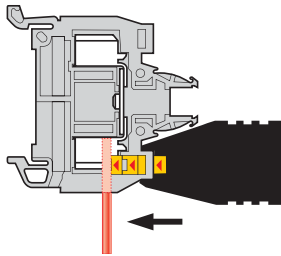
ADO connection

Tools

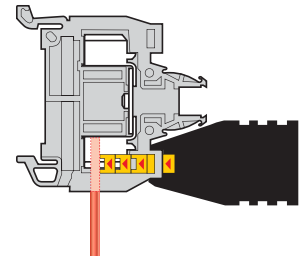
1, 2, 3, It is connected!



1 Position the wire (not stripped) in the opening on the side of the block.



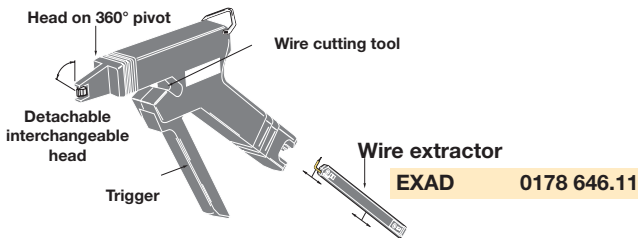
2 Position the tool in the recess on top of the block.



3 Pull the trigger fully.

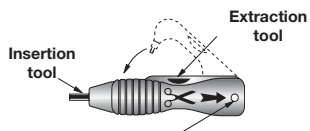
Tools

SEMI-AUTOMATIC TOOL



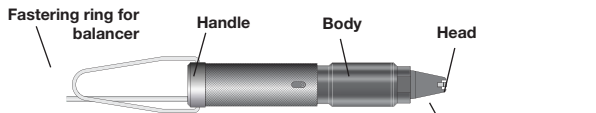
OUPAD 0178 944.04

SIMPLIFIED TOOL



OUMAD 0179 466.06

PNEUMATIC TOOL KIT



OUTAD 0205 710.11

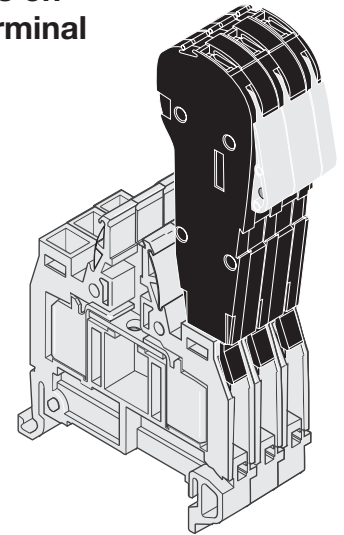
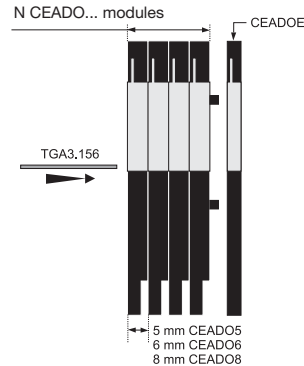
0205 284.03



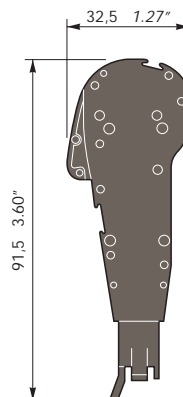
EXAD2 0205 721.00

Test connectors on ADO jaw for terminal blocks

Building a test connector



All modules snap together for ease of assembly. A connector can be made of 20 poles max. The assembly rod for levers (TGA3.156) cut at the convenient length is advised for connectors > 5 poles.



5 mm spacing	
CEADO.5	0399 345.11
6 mm spacing	
CEADO.6	0399 346.12
8 mm spacing	
CEADO.8	0399 348.24
End module th. 4.4 mm	
CEADOE	0399 341.15
Assembly rod for lever	
TGA. 156	0206 277.14



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