



10196E00







- > 4/4+1 poles, up to 10 A
- > Compact design
- > Safe, fast disconnection under load
- > Simple assembly
- > Suitable for rough industrial conditions
  - IP66 / IP68
- > Available as
  - Flange socket
  - Device plug
  - Plug / coupler
- > Material
  - Polyamide
  - Nickel-plated brass
- > Connection type
  - Crimp
  - Cable





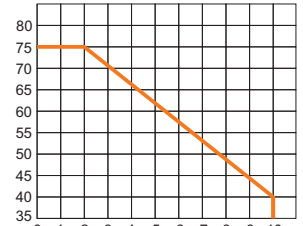
**WebCode 8591A**

	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in		x	x		x	x

**Selection Table**

Version	Number of poles	Voltage	Co-ding	Connection type	Cable dia. range / cable length	Order number	Art. no.	PS
 Coupler, plastic 10203E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/131-06-0001	169177 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/131-08-0001	169178 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/431-10-0001	153998	53
 Coupler, nickel-plated brass 10200E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/131-06-3001	154025 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/131-08-3001	169180 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/431-10-3001	153995 ◀	53
 Plug, plastic 10208E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/171-06-0001	169185 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/171-08-0001	169186 ◀	53
	4 P + PE	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/471-10-0001	154007 ◀	53
 Plug, nickel-plated brass 10209E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/171-06-3001	154034 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/171-08-3001	169188 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	∅ 4 ... 7.5 mm	8591/471-10-3001	154004 ◀	53
 Flange socket, plastic, for Ex e enclosures 10201E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	--	8591/181-06-0000	154040 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	--	8591/181-08-0000	154044 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	--	8591/481-10-0000	154016 ◀	53
 Flange socket, nickel-plated brass. Suitable also for Ex d applications without limited enclosure volume. 10204E00	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/181-06-3000	154042 ◀	53
	4 P	Bus, 24 V DC	8 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/181-08-3000	154046 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/481-10-3000	154013 ◀	53

Selection Table								
Version	Number of poles	Voltage	Co-ding	Connection type	Cable dia. range / cable length	Order number	Art. no.	PS
 <p>10205E00 Device plug, plastic, for Ex e enclosures.</p>	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Crimp 1.5 mm <sup>2</sup>	--	8591/191-06-0000	154048 ◀	53
	4 P	Bus, 24 V DC	8 h	Crimp 1.5 mm <sup>2</sup>	--	8591/191-08-0000	154052 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Crimp 1.5 mm <sup>2</sup>	--	8591/491-10-0000	154022 ◀	53
 <p>10202E00 Device plug, nickel-plated brass. Suitable also for Ex d applications, enclosure volume &lt; 2 dm<sup>3</sup>.</p>	2 P + PE Pin long	24 V AC, 110 ... 130 V AC, 230 ... 250 V AC	6 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/191-06-3000	154050 ◀	53
	4 P	Bus, 24 V DC	8 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/191-08-3000	154054 ◀	53
	4 P + PE bracket	Bus + Shield, 230 ... 250 V AC, 24 V DC	10 h	Cable 1.5 mm <sup>2</sup>	30 cm	8591/491-10-3000	154019 ◀	53

Technical Data	
Explosion protection	
Global (IECEx)	
Gas and dust	IECEx BKI 07.0001X Ex de IIC T6 or Ex ia/ib IIC T6 Ex tD A21 IP66 T52°C
Europe (ATEX)	
Gas and dust	PTB 03 ATEX 1097 X ⊕ II 2 G Ex de IIC T6 or Ex ia/ib IIC T6 ⊕ II 2 D Ex tD A21 IP66 T52°C
Certifications and certificates	
Certificates	IECEx, ATEX, Serbia (SRPS)
Ambient temperature	-25 ... +40 °C Plastic version -55 ... +40 °C Plastic version, shock resistant, I <sub>th</sub> max. 10 A -55 ... +40 °C Metal version, I <sub>th</sub> max. 10 A -55 ... +75 °C Metal version, I <sub>th</sub> max. 2 A -55 ... +75 °C Metal version, shock resistant, I <sub>th</sub> max. 2 A With limited rated current: Ta [°C]
	 <p style="text-align: right;">12203E00</p>
Storage temperature	-55 ... +80 °C (in original packaging)
Rated operational voltage	250 V AC, 50 ... 60 Hz 60 V DC
Rated operational current	max. 10 A
Switching capacity	IEC/EN 60947-4 AC-3: 250 V / 1 A DC-3: 60 V / 0.5 A
	IEC/EN 61984 AC: 250 V / 10 A DC: 60 V / 2.5 A
Back-up fuse	
without thermal protection	max. 10 A
with thermal protection	max. 20 A gL
Frequency range	0 ... 100 MHz, Fast Ethernet compatible resp. USB 2.0
Transfer rate	up to 100 MBit/s acc. to TIA/EIA-568-B.2 Category 5e
Degree of protection	IP66 / IP68 (2 m water column, 1 hour) acc. to IEC/EN 60529 (with protective caps closed and secured as well as properly fitted and secured components)

E3

**Technical Data**

Enclosure material	Plug, coupler, device plug, flange socket		Plastic (polyamide), nickel-plated brass
	Device plug < 2 dm <sup>3</sup> / > 2 dm <sup>3</sup> plug / coupler for armoured cables		Nickel-plated brass
	USB device plug, USB flange socket, Ethernet device plug, Ethernet flange socket		Nickel-plated brass
Connection cross-section	Plug, coupler	Crimp <sup>*)</sup> 1.5 mm <sup>2</sup> : Crimp <sup>*)</sup> 2.5 mm <sup>2</sup> :	0.75 ... 1.5 mm <sup>2</sup> / Soldering: 0.34 ... 1.0 mm <sup>2</sup> 1.5 ... 2.5 mm <sup>2</sup>
	Device plug Flange socket	<b>Plastic version:</b> Crimp <sup>*)</sup> 1.5 mm <sup>2</sup> : Crimp <sup>*)</sup> 2.5 mm <sup>2</sup> : <b>Metal version:</b> 30 cm cable <sup>**)</sup> :	0.75 ... 1.5 mm <sup>2</sup> / Soldering : 0.34 ... 1.0 mm <sup>2</sup> 1.5 ... 2.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
	PE bracket connection	Crimp <sup>*)</sup> 1.5 mm <sup>2</sup> : Crimp <sup>*)</sup> 2.5 mm <sup>2</sup> : 20 cm cable <sup>**)</sup>	0.75 ... 1.5 mm <sup>2</sup> 1.5 ... 2.5 mm <sup>2</sup>
	USB device plug, USB flange socket Ethernet device plug, Ethernet flange socket	30 cm cable <sup>**)</sup>	
Cable entries	Plug, coupler	8591/1...-.01 8591/1...-.02	∅ 4 ... 7.5 mm ∅ 7.5 ... 11 mm
	Device plug, flange socket Plug, coupler for armoured cables	M20 x 1.5 / 1/2" NPT M25 x 1.5	
Dimensions		Plastic version (LxD)	Metal version (LxD)
	Plug	~ 96 x ∅ 30 mm	~ 96 x ∅ 28 mm
	Coupler	~ 95 x ∅ 30 mm	~ 95 x ∅ 28 mm
	Plug, coupler for armoured cables	- -	~ 125 x ∅ 28 mm
	Flange socket	~ 63.5+9 x ∅ 30 mm	~ 63.5+9 x ∅ 28 mm
	Device plug	~ 60+19 x ∅ 30 mm	~ 60+13 x ∅ 28 mm (enclosure volume < 2 dm <sup>3</sup> ) ~ 74+13 x ∅ 28 mm (enclosure volume > 2 dm <sup>3</sup> )

<sup>\*)</sup> crimp connection only with crimping tool, Order-No 109116. Alternatively soldering: 0.34 ... 1.0 mm<sup>2</sup> (with heat-shrink tubing)

<sup>\*\*) with cable: only possible for versions made of nickel-plated brass</sup>