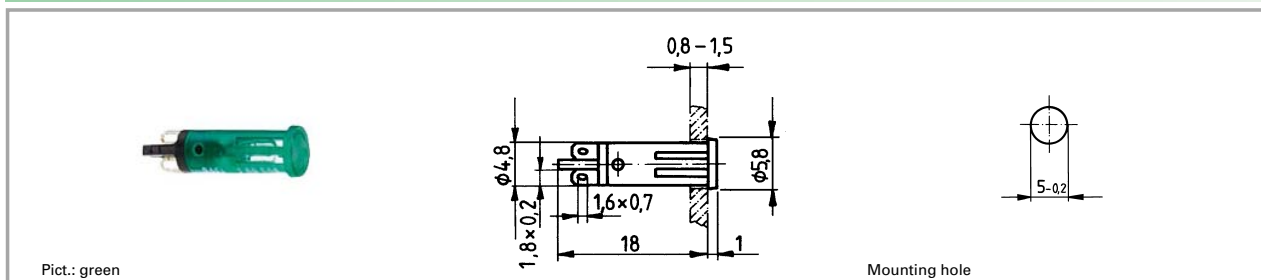**RAFI**
SOLUTIONS WITH PASSION

General data

Signal lamps with integral filament lamp, neon lamp or neon glow lamp.
For mounting hole diameters from 5 to 14 mm. The mm specification in the product name indicates the appropriate mounting hole diameter of the signal lamps.

3

Content

Integr. Lamp

Signal lamps with integrated filament lamp, 5 mm

Pict.: green

Mounting hole

3

Integr. Lamp

Technical data

General information
Form of lens — see order block
Colour of lens — see order block
Diameter of collar — see order block

Dimensions
Length of collar — see order block
Width of collar — see order block
Overall height — 1 mm
Mounting depth — 18 mm
Mounting hole — 5 mm

Mechanical design
Mounting — pressing into hole
Terminals — solder terminals
Lamp socket — no
Lamp — filament lamp

Electrical characteristics
Voltage limit max. — 24 V
Power limit max. — 0,45 W

Other specifications
Operating life — 10000 h
Degree of protection
from front side — IP40
Weight — 0,3 g

Signal lamps with integrated filament lamp, 5 mm, round lens

Pict.: green

Mounting hole
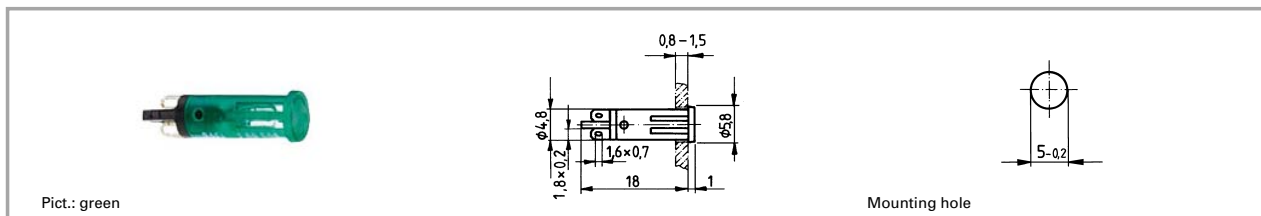
Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
24 V	0.45 W	filament lamp	10000 h	transparent colourless	**1.69.508.113/1002**
24 V	0.45 W	filament lamp	10000 h	transparent red	**1.69.508.113/1301**
24 V	0.45 W	filament lamp	10000 h	transparent yellow	**1.69.508.113/1402**
24 V	0.45 W	filament lamp	10000 h	transparent green	**1.69.508.113/1502**
24 V	0.45 W	filament lamp	10000 h	transparent blue	**1.69.508.113/1601**

Technical data see page 3 - 18

Stock items are marked
by **bold printed** order numbers.

Signal lamps with integrated filament/neon lamp, 7 mm

Pict.: yellow

7−0,2
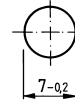
Mounting hole

Technical data

General information

Form of lens	round
Colour of lens	see order block
Diameter of collar	8.5 mm

Dimensions

Overall height	5 mm
Mounting depth	see order block
Mounting hole	7 mm

Mechanical design

Mounting	pressing into hole
Terminals	see order block
Lamp socket	no
Lamp	see order block

Electrical characteristics

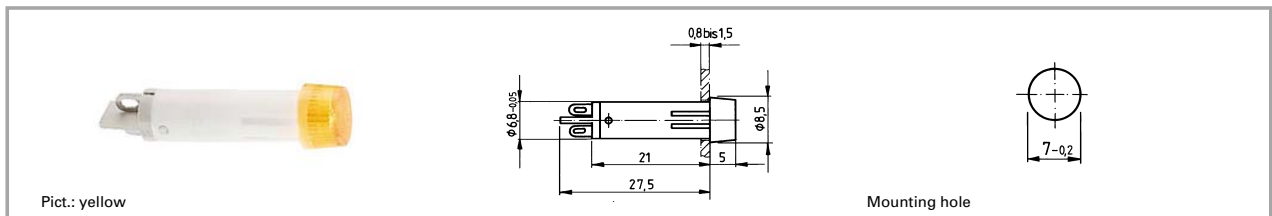|	
Voltage limit max.	see order block
Power limit max.	see order block

Other specifications

Operating life	25000 h
Degree of protection from front side	IP40
Weight	0,87 g
Approvals neon lamp versions	VDE T85°,SEV T85°, FEMKO T85° b. 0,5 mA

3

Integr. Lamp

Signal lamps with integrated filament/neon lamp, 7 mm, solder terminals

Pict.: yellow

Mounting hole

Voltage limit max.	Power limit max.	Terminals	Lamp	Operating life	Colour of lens	Order no.
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent colourless	**1.69.511.054/1002**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent red	**1.69.511.054/1301**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent yellow	**1.69.511.054/1402**
24 V	0.84 W	solder terminals	filament lamp	25000 h	transparent green	**1.69.511.054/1502**
230 V		solder terminals	neon lamp		transparent colourless	1.69.511.059/1002
230 V		solder terminals	neon lamp		transparent red	1.69.511.059/1301
230 V		solder terminals	neon lamp		transparent yellow	1.69.511.059/1402

Technical data see page 3 - 20

3

Integr.
Lamp

Signal lamps
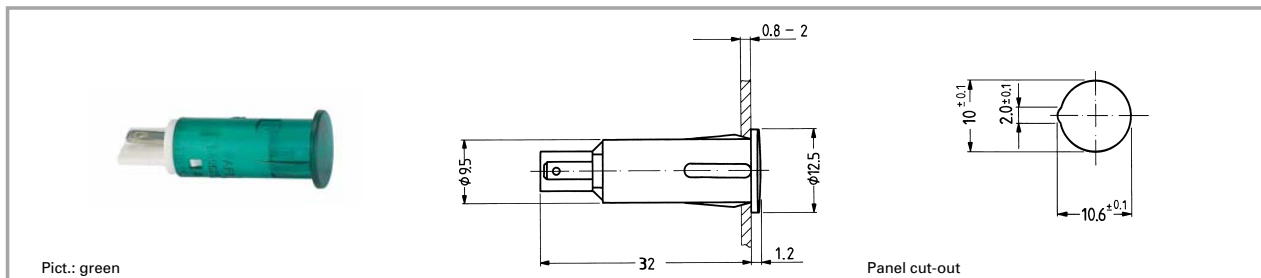
RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament/neon lamp, 10 mm

Pict.: green

Panel cut-out

0.8 – 2

$\varnothing$ 9,5

$\varnothing$ 12,5

32

1.2

10 $^{\pm 0.1}$

2,0 $\pm$ 0,1

10,6 $^{\pm 0.1}$

Technical data

General information
Form of lens	see order block
Colour of lens	see order block
Diameter of collar	see order block

Dimensions
Length of collar	see order block
Width of collar	see order block
Overall height	1.2 mm
Mounting depth	32 mm
Mounting hole	10 mm

Mechanical design
Mounting	pressing into hole
Terminals	quick connecter 2.8 x 0.8 tin-plated
Lamp socket	no
Lamp	see order block

Electrical characteristics
Voltage limit max.	see order block
Power limit max.	see order block

Other specifications
Operating life	10000 h
Degree of protection from front side	IP40
Weight	2,5 g
Approvals neon lamp (T=°C)	VDE (85) at 1,5 W, VDE (120) at 1,6 mA

3

Integr. Lamp

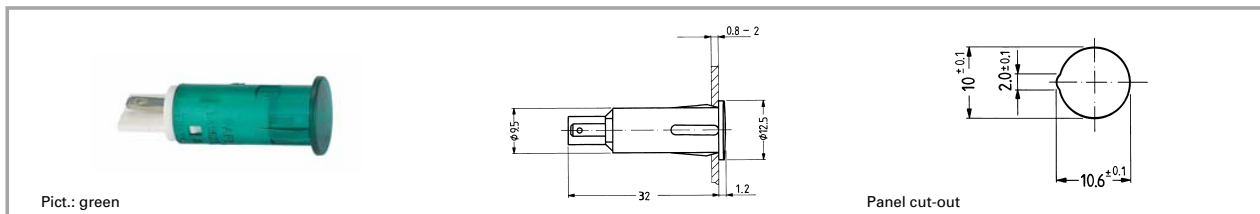## Signal lamps with integrated filament/neon lamp, 10 mm, round lens

Pict.: green

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	10000 h	transparent colourless	1.69.527.003/1002
28 V	1.2 W	filament lamp	10000 h	transparent red	1.69.527.003/1301
28 V	1.2 W	filament lamp	10000 h	transparent yellow	1.69.527.003/1402
28 V	1.2 W	filament lamp	10000 h	transparent green	1.69.527.003/1502
230 V		neon lamp		transparent colourless	**1.69.527.104/1002**
230 V		neon lamp		transparent red	**1.69.527.104/1301**
230 V		neon lamp		transparent yellow	**1.69.527.104/1402**

Technical data see page 3 - 22

3

Integr.
Lamp

Stock items are marked
by **bold printed** order numbers.
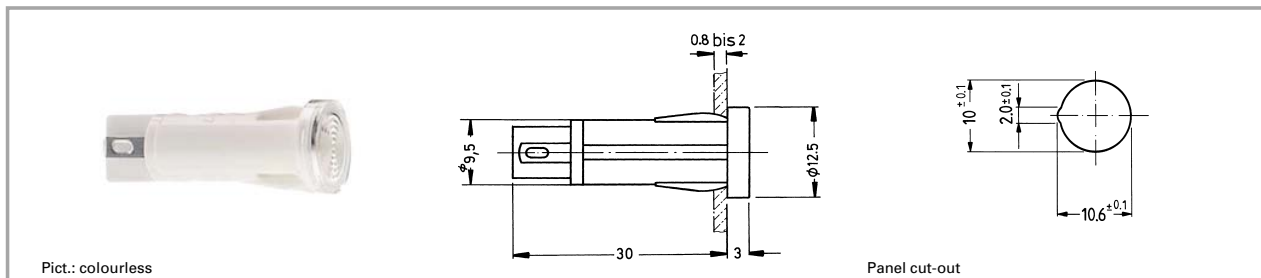
RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament/neon lamp, 10 mm

Pict.: colourless

Panel cut-out

Technical data

General information
Form of lens   see order block
Colour of lens   see order block
Diameter of collar   see order block

Dimensions
Length of collar   see order block
Width of collar   see order block
Overall height   3 mm
Mounting depth   30 mm
Mounting hole   10 mm

Mechanical design
Mounting   pressing into hole
Terminals   see order block
Lamp socket   no
Lamp   see order block

Electrical characteristics
Voltage limit max.   see order block
Power limit max.   see order block

Other specifications
Operating life   see order block
Degree of protection
from front side   IP40
Weight   2,5 g
Approvals filament lamp
(T = 85°C)   SEV
Approvals neon lamp
(T = 120°C)   VDE, SEV

3

Integr. Lamp

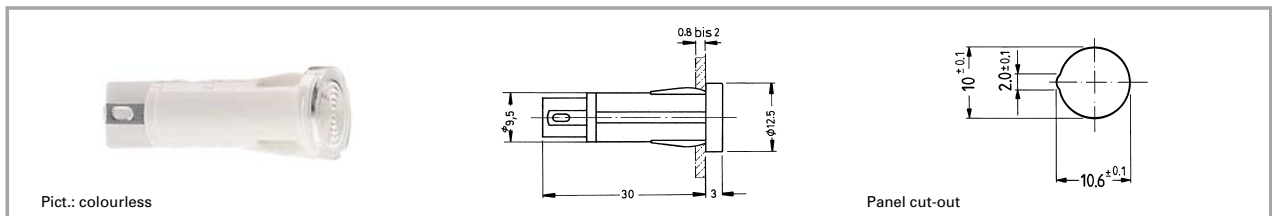## Signal lamps with integrated filament/neon lamp, 10 mm, round lens

Pict.: colourless

0.8 bis 2

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	opaque white	**1.69.507.105/0214**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent colourless	**1.69.507.105/1002**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent red	**1.69.507.105/1301**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent yellow	**1.69.507.105/1402**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent green	**1.69.507.105/1502**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent blue	**1.69.507.105/1601**
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent colourless	**1.69.507.117/1002**
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent red	**1.69.507.117/1301**
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent yellow	**1.69.507.117/1402**
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent green	**1.69.507.118/1502**

Technical data see page 3 - 24

3

Integr.
Lamp

Signal lamps

RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament/neon lamp, 10 mm, square lens
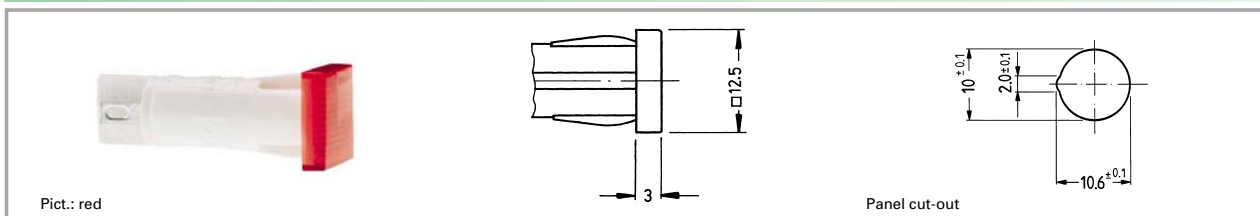
Pict.: red

☐12.5

3

10 ±0,1
2,0±0,1

10,6 ±0,1

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	opaque white	**1.69.507.125/0214**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent colourless	**1.69.507.125/1002**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent red	**1.69.507.125/1301**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent yellow	**1.69.507.125/1402**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent green	**1.69.507.125/1502**
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent blue	**1.69.507.125/1601**
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent colourless	1.69.507.137/1002
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent red	1.69.507.137/1301
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent yellow	1.69.507.137/1402
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent green	1.69.507.138/1502

3

Integr. Lamp

Technical data see page 3 - 24

Stock items are marked
by **bold printed** order numbers.

RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament/neon lamp, 10 mm, lens in arrow shape
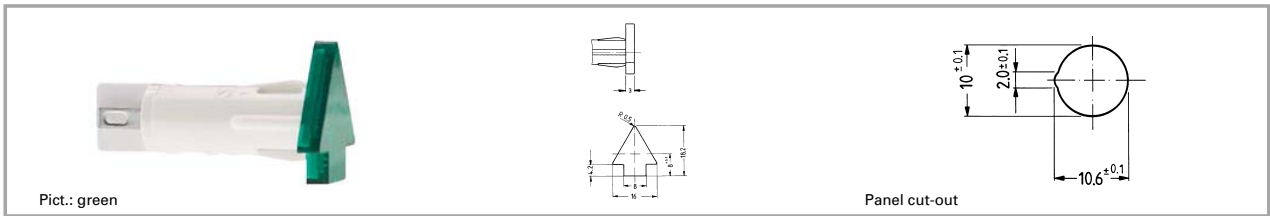
Pict.: green

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	opaque white	1.69.507.145/0214
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent colourless	1.69.507.145/1002
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent red	1.69.507.145/1301
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent yellow	1.69.507.145/1402
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent green	1.69.507.145/1502
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	10000 h	transparent blue	1.69.507.145/1601
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent colourless	1.69.507.157/1002
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent red	1.69.507.157/1301
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent yellow	1.69.507.157/1402
230 V		neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent green	1.69.507.158/1502

Technical data see page 3 - 24

Other voltages and versions with connection cable on request.

3

Integr.
Lamp

Signal lamps

Signal lamps with integrated lamp

RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament/neon lamp, 14 mm

Pict.: colourless   colourless   Panel cut-out

Technical data

3

Integr.
Lamp

General information
Form of lens   see order block
Colour of lens   see order block
Diameter of collar   see order block

Dimensions
Length of collar   see order block
Width of collar   see order block
Overall height   4 mm
Mounting depth   see order block
Mounting hole   14 mm

Mechanical design
Mounting   pressing into hole
Terminals   see order block
Lamp socket   no
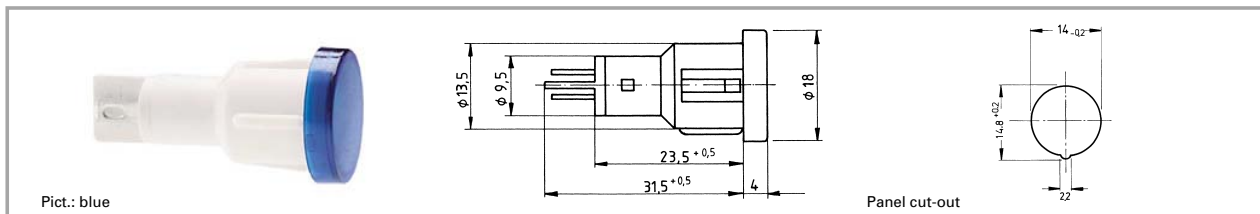Lamp   see order block

Electrical characteristics
Voltage limit max.   see order block
Power limit max.   1.2 W

Other specifications
Operating life   see order block
Degree of protection
from front side   IP40
Weight   5 g
Approvals at 1.5 mA
(T 85°C)   VDE, SEV, FEMKO,
                             DEMKO

Signal lamps with integrated neon lamp, 14 mm, round lens, 230 V

Pict.: colourless   Panel cut-out
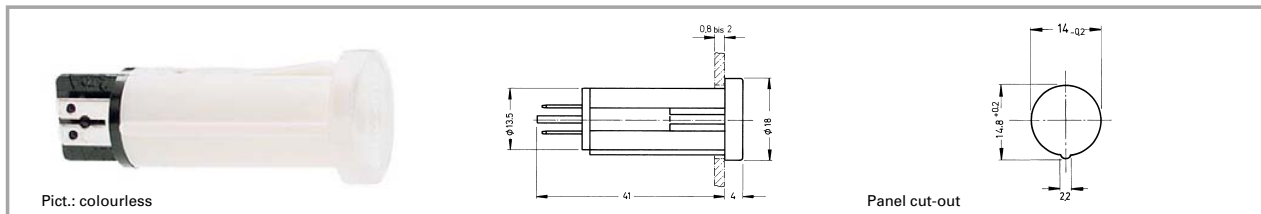
Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
230 V	1.2 W	neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent colourless	1.02.614.502/1002
230 V	1.2 W	neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent red	1.02.614.502/1301
230 V	1.2 W	neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent yellow	1.02.614.502/1402
230 V	1.2 W	neon lamp	quick connecter 2.8 x 0.8 tin-plated		transparent green	1.02.614.503/1502

Technical data see page 3 - 28

Stock items are marked
by **bold printed** order numbers.

RAFI
SOLUTIONS WITH PASSION

Signal lamps with integrated filament lamp, 14 mm, round lens, 28 V

Pict.: blue

Panel cut-out

Voltage limit max.	Power limit max.	Lamp	Terminals	Operating life	Colour of lens	Order no.
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	15000 h	transparent colourless	1.69.523.003/1002
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	15000 h	transparent red	1.69.523.003/1301
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	15000 h	transparent yellow	1.69.523.003/1402
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	15000 h	transparent green	1.69.523.003/1502
28 V	1.2 W	filament lamp	quick connecter 2.8 x 0.8 tin-plated	15000 h	transparent blue	1.69.523.003/1601

3

Integr.
Lamp

Signal lamps

Stock items are marked
by **bold printed** order numbers.