



TS 452-12Y

- Metal enclosure
- 2 cable entries M 20 x 1.5
- 118 mm x 127 mm x 64 mm (basic component)

Data

Ordering data

TS 452-12Y

101058419

EAN (European Article Number) 4030661032412

eCl@ss number, Version 9.0 27-27-06-01

Approval - Standards

DNV.GL

CCC

EAC

General data

Product name	452 plunger S
	EN 60947-5-1
Active principle	mechanical
Slide form	Sphere
Enclosure material	Grey cast iron, galvanised
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Gross weight	1,668 g

General data - Features

Number of openers	2
Number of shutters	1

Mechanical data

Actuating element	Plunger
Mechanical life, minimum	10,000,000 Operations
Actuating angle	20 °
Contact opening	2 x 6 mm
Actuating speed, minimum	1 mm/min
Actuating speed, maximum	1 m/s
Note (Actuating speed)	Actuating speed with vertical actuating angle to switch axis

Mechanical data - Connection technique

Terminal Connector	Screw connection 1.5 mm ² 2.5 mm ²
Note (Cable section)	All indications about the cable section are including the conductor ferrules.
Wire cross-section	13 AWG

Mechanical data - Dimensions

Height of sensor	153 mm
Length of sensor	64 mm
Width of sensor	118 mm
Diameter of the Plunger	10 mm

Ambient conditions

Protection class	IP 65 to IEC/EN 60529
Ambient temperature, minimum	-30 °C
Ambient temperature, maximum	+90 °C

Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
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Electrical data

Thermal test current	16 A
Utilisation category AC-15	400 VAC
Utilisation category AC-15	4 A
Switching element	NO contact, NC contact
Note (Switching element)	with double break
Switching principle	Creep circuit element

Notes

Note (General)

Actuation from the side of the plunger should be avoided, since this reduces the mechanical life of the position switch.

Pictures

Photo/Product/Catalogue



ID: bt441f01

| 295,6 kB | .jpg | 352.778 x 323.497 mm - 1000 x 917
Pixel - 72 dpi

| 25,4 kB | .png | 74.083 x 68.086 mm - 210 x 193
Pixel - 72 dpi

Photo/Product/Catalogue

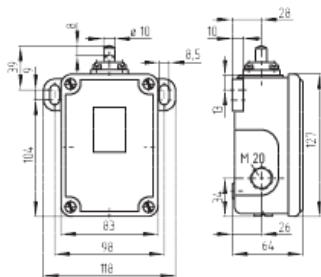


ID: kt452f01

| 56,2 kB | .png | 74.083 x 112.536 mm - 210 x 319
Pixel - 72 dpi

| 673,8 kB | .jpg | 352.778 x 536.575 mm - 1000 x
1521 Pixel - 72 dpi

Dimension/Product/Basic



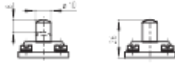
ID: 1t452g01

| 176,9 kB | .jpg | 352.778 x 303.389 mm - 1000 x 860
Pixel - 72 dpi

| 5,8 kB | .png | 74.083 x 63.853 mm - 210 x 181 Pixel
- 72 dpi

| 35,1 kB | .cdr |

Dimension/Product/Actuator



ID: 1t422b01

| 33,5 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701
Pixel - 72 dpi
| 2,2 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel
- 72 dpi

Illustration/Product/Function



ID: 235sz01

| 14,1 kB | .cdr |
| 1,8 kB | .png | 74.083 x 251.883 mm - 210 x 714
Pixel - 72 dpi
| 95,3 kB | .jpg | 352.778 x 1199.444 mm - 1000 x
3400 Pixel - 72 dpi

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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