



TS 461-31Y

- Metal enclosure
- 2 cable entries M 20 x 1.5
- 118 mm x 155 mm x 64 mm (basic component)

Data

Ordering data

	TS 461-31Y
	101058508
eCl@ss number, Version 9.0	27-27-06-01

General data

Product name	461 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	2,100 g

General data - Features

Number of openers	1
Number of shutters	3

Safety appraisal - Safety outputs

B10d Normally-closed contact (NC)	2,000,000 Operations
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Mechanical data

Actuating element	Plunger
Mechanical life, minimum	10,000,000 Operations
Actuating angle	20 °
Contact opening	max. 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	181 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: kt461f02

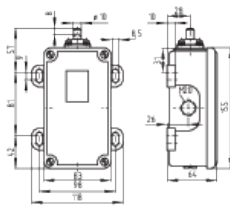
| 1,0 MB | .jpg | 352.778 x 529.872 mm - 1000 x 1502

Pixel - 72 dpi

| 72,8 kB | .png | 74.083 x 111.125 mm - 210 x 315

Pixel - 72 dpi

Dimension/Product/Basic



ID: 1t461g01

| 110,5 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

Pixel - 72 dpi

| 9,2 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel
- 72 dpi

| 35,2 kB | .cdr |

Diagramm/Product/Travel

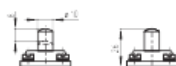


ID: kt441s07

| 1,1 kB | .png | 74.083 x 52.564 mm - 210 x 149 Pixel
- 72 dpi

| 51,7 kB | .jpg | 352.778 x 264.231 mm - 1000 x 749
Pixel - 72 dpi

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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