



TR 452-20Y

- Metal enclosure
- 2 cable entries M 20 x 1.5
- Actuator can be repositioned by 90°
- 118 mm x 127 mm x 64 mm (basic component)

Data

Ordering data

	TR 452-20Y
	101058790
EAN (European Article Number)	4030661033822
eCl@ss number, Version 9.0	27-27-06-01

Approval - Standards

DNV.GL
CCC
EAC

General data

Product name	452 roller plunger _R
	EN 60947-5-1
Active principle	mechanical
Slide form	Castor
Enclosure material	Grey cast iron, galvanised
Enclosure coating material	painted
Material of the contacts, electrical	Silver
Roller material	Plastic
Gross weight	1,600 g

General data - Features

Number of shutters	2
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Mechanical data

Actuating element	Roller plunger
Mechanical life, minimum	10,000,000 Operations
Actuating angle, from left of switch axis	30 °
Actuating angle, from right of switch axis	30 °
Contact opening	2 x 6 mm
Actuating speed, minimum	1 mm/min
Actuating speed, maximum	0.5 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	173 mm
Length of sensor	64 mm
Width of sensor	118 mm
Width of Castor	6.5 mm
Diameter of Castor	25 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	Normally open contact (NO)
Note (Switching element)	with double break

Switching principle

Creep circuit element

Pictures

Photo/Product/Catalogue



ID: bt441f04

| 64,4 kB | .jpg | 140.406 x 140.406 mm - 398 x 398

Pixel - 72 dpi

| 25,4 kB | .png | 74.083 x 74.083 mm - 210 x 210

Pixel - 72 dpi

Photo/Product/Catalogue



ID: kt452f01

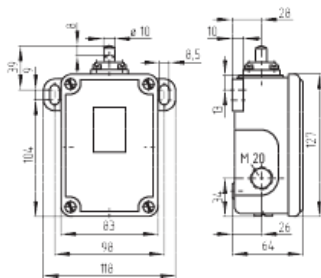
| 56,2 kB | .png | 74.083 x 112.536 mm - 210 x 319

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

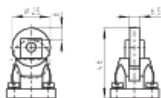
Pixel - 72 dpi

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

- 72 dpi

| 35,1 kB | .cdr |

Dimension/Product/Actuator



ID: 1t422b03

| 3,0 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel

- 72 dpi

| 55,3 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701

Pixel - 72 dpi

Illustration/Product/Function



ID: 235rz01

| 149,7 kB | .jpg | 352.778 x 799.394 mm - 1000 x 2266 Pixel - 72 dpi

| 15,2 kB | .cdr |

| 2,9 kB | .png | 74.083 x 167.922 mm - 210 x 476 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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