



TR 452-21Y

- 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

	TS 452-21Y
	101058413
eCl@ss number, Version 9.0	27-27-06-01

General data

Product name	452 roller plunger _R 452 plunger S 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	1,800 g

General data - Features

Number of openers	1
Number of shutters	2

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
---------------------------------	------

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

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

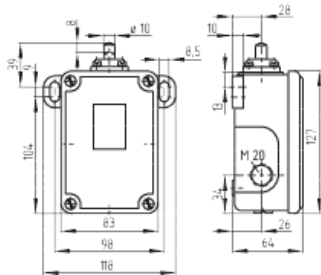
Photo/Product/Catalogue



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

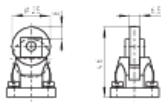
Dimension/Product/Basic



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

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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.

Generated on 2020-01-31T15:58:20+01:000301Europe/BerlinSun, 31 Jan 2021 15:58:20

+010020pmSunday.31pm31Europe/BerlinCET5801Europe/BerlinJanuary2021Sun, 31 Jan 2021 15:58:20

+010001pm31