



IFL 10-180-01

- Thermoplastic enclosure
- AC 2-wire
- Double-insulated
- Design M 18 x 1

Data

Ordering data

Product type description	IFL 10-180-01
Article number (order number)	101092424
EAN (European Article Number)	4030661024172
eCl@ss number, version 9.0	27-27-01-01
eCl@ss number, version 11.0	27-27-01-01
ETIM number, version 7.0	EC002714
ETIM number, version 6.0	EC002714

Approvals - Standards

Certificates	CCC
--------------	-----

General data

Standards	EN IEC 60947-5-2 DIN VDE 0660-208
Housing construction form	Cylinder, thread
Installation conditions (mechanical)	not flush
Enclosure material	Plastic

Active area	Plastic
Material of the nuts	Plastic
Material of the washer	Perbunan [®]
Gross weight	105 g

General data - Features

Integral system diagnostics, status	Yes
Number of cable wires	2

Mechanical data

Tightening torque of nuts, maximum	3 Nm
------------------------------------	------

Mechanical data - Switching distances according EN IEC 60947-5-3

Nominal switching distance S_n	10 mm
----------------------------------	-------

Mechanical data - Connection technique

Termination	Cable H03VV-F
Length of cable	2 m
Wire cross-section	0.5 mm ²
Material of the Cable mantle	PVC

Mechanical data - Dimensions

ISO thread of the sensor	M18
width across flats	24 BK
Length of sensor	79 mm

Ambient conditions

Degree of protection	IP67
Ambient temperature, minimum	-25 °C

Ambient temperature, maximum	+70 °C
------------------------------	--------

Protection class	II
------------------	----

Ambient conditions - Insulation values

Rated impulse withstand voltage U_{imp}	4 kV
---	------

Electrical data

Voltage type	AC (alternating current)
--------------	--------------------------

Rated supply frequency, minimum	45 Hz
---------------------------------	-------

Rated supply frequency, maximum	65 Hz
---------------------------------	-------

Operating voltage, minimum	15 V
----------------------------	------

Operating voltage, maximum	250 V
----------------------------	-------

Operating current, minimum	10 mA
----------------------------	-------

Operating current	500 mA
-------------------	--------

Switching element	Opener (NC)
-------------------	-------------

Protection circuit integrated	inductive interference protection
-------------------------------	-----------------------------------

Switching frequency, approx.	10 Hz
------------------------------	-------

Electrical data - Digital Output

Voltage drop U_d , maximum	4.5 V
------------------------------	-------

Current at Voltage drop U_d	0.2 A
-------------------------------	-------

Design of control elements	Two-wire
----------------------------	----------

Status indication

Note (Integral System Diagnostics, status)	yellow LED
---	------------

Note

Note (General)	Instead of nuts, a mounting clamp can be provided.
----------------	--

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, 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.

