

Datasheet - TFH 232 ST-AS UEDR

AS interface safety at work / Safety switchgear / Foot switch / TFH 232 - AS



- 2 Contacts
- AS-Interface M12 connector
- Protective shield with wide opening
- Low operating height of pedal
- Integrated AS-Interface
- Suitable for AS-i Power24

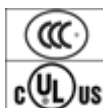
(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	TFH 232 ST-AS UEDR
EAN Code	4030661404486
eCl@ss	27-37-12-17

Approval


Approval



Classification

Standards	IEC 61508, EN ISO 13849-1
PL	up c
Control category	up 1
PFH value	$\leq 1.14 \times 10^{-6}$
- notice	up to max. 36.500 switching cycles/year
SIL	up 1
Mission time	20 Years

Global Properties

Permanent light	TFH 232
Standards	EN ISO 13850, EN 50295, IEC 61508, EN ISO 13849-1, EN 60947-5-1
Compliance with the Directives (Y/N) 	Yes
Materials	

- Material of the housings	Aluminium
- Material of the cover	Aluminium
- Material of the protective shield	Aluminium
- Material of the pedal	Plastic, glass-fibre reinforced thermoplastic
Housing coating	powder-coated
Form	
Color	RAL 9006
Weight	1765
Suitable for EMERGENCY-OFF (Y/N)	Yes

Mechanical data

Design of electrical connection	connector plug M12, 5-pole
Mechanical life	> 200.000 operations
Switching frequency	1 /
restistance to shock	15 / 11
Resistance to vibration	10 ... 150 HZ (0,35 mm / 5 g)
Latching (Y/N)	Yes
Latching (Y/N)	Yes
Probing possible (Y/N)	Yes
with pressure point (Y/N)	Yes

Ambient conditions

Ambient temperature	
- Min. environmental temperature	-25
- Max. environmental temperature	+60
- Min. Storage and transport temperature	-25
- Max. Storage and transport temperature	+85
Relative humidity	30 ... 95
- non-condensing	
- non-icing	
Protection type IP	IP65 to IEC/EN 60529
Overvoltage category	III
Degree of pollution	3

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Number of shutters	1
Number of openers	1
Contact cover available (Y/N)	Yes

Electrical data - AS interface

AS-i Supply voltage	18 ... 31.6 VDC, Protection against polarity reversal
AS-i operating current	≤ 50
AS-i Device insulation	internally short-circuit proof
AS-i Specification	
- version	V 3.0
- Profile	S-0.B.F.F
- IO-Code	0x0
- ID-Code	0xB
- ID-Code1	0xF

- ID-Code2	0xF
AS-i Inputs	
- Channel 1	Data bits DI 0/DI 1= dynamic code transmission
- Channel 2	Data bits DI 2/DI 3= dynamic code transmission
AS-i Outputs	DO 0 ... DO 3 not used
- DO 0	Solenoid control
AS-i Parameter bits	P1 ... P3 not used
- P0	Channel 2 switched
AS-i input module address	0
- Default on address 0, programmable via the AS-Interface Master or Hand-held programming device	

LED switching conditions display

LED switching conditions display (Y/N)	No
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Dimensions

Dimensions	
- Width	170
- Height	189
- Depth	274


Diagram





Note Diagram

 positive break NC contact

 active

 no active

 Normally-open contact

 Normally-closed contact

Documents

Operating instructions and Declaration of conformity (jp) 331 kB, 27.08.2012

Code: mrl_tfh232as_jp

Operating instructions and Declaration of conformity (fr) 262 kB, 17.01.2018

Code: mrl_tfh232as_fr

Operating instructions and Declaration of conformity (it) 259 kB, 17.01.2018

Code: mrl_tfh232as_it

Operating instructions and Declaration of conformity (en) 257 kB, 22.11.2017

Code: mrl_tfh232as_en

Operating instructions and Declaration of conformity (nl) 259 kB, 17.01.2018

Code: mrl_tfh232as_nl

Operating instructions and Declaration of conformity (de) 244 kB, 22.11.2017

Code: mrl_tfh232as_de

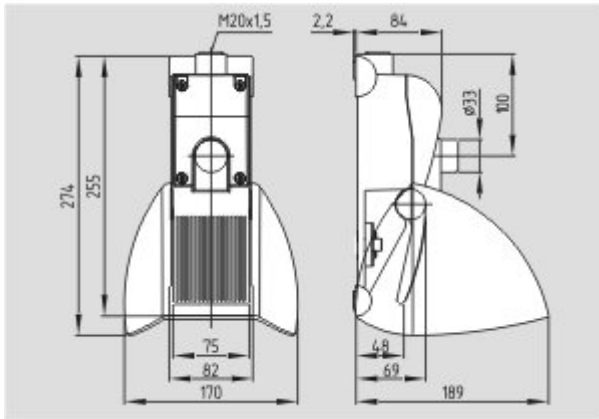
Operating instructions and Declaration of conformity (es) 261 kB, 16.01.2018

Code: mrl_tfh232as_es

TÜV certification (de, en) 46 kB, 02.04.2014

Code: z_tfhp01

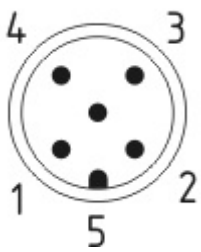
Images



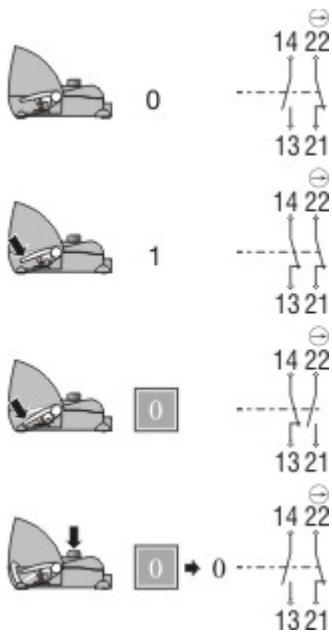
Dimensional drawing (basic component)



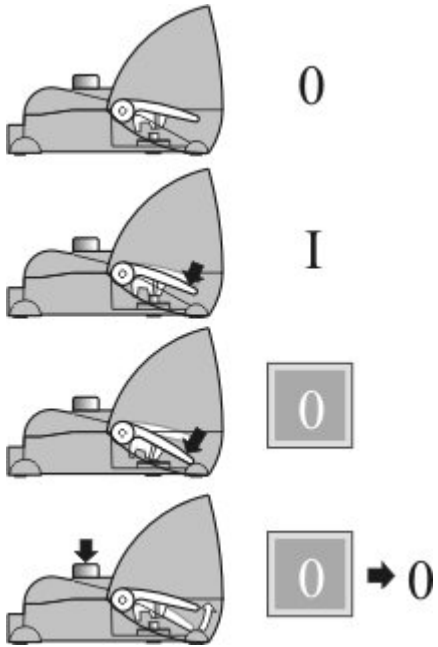
Product in the environment



Contact arrangement



Application



Operating principle

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal

The data and values have been checked thoroughly. Technical modifications and errors excepted.

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