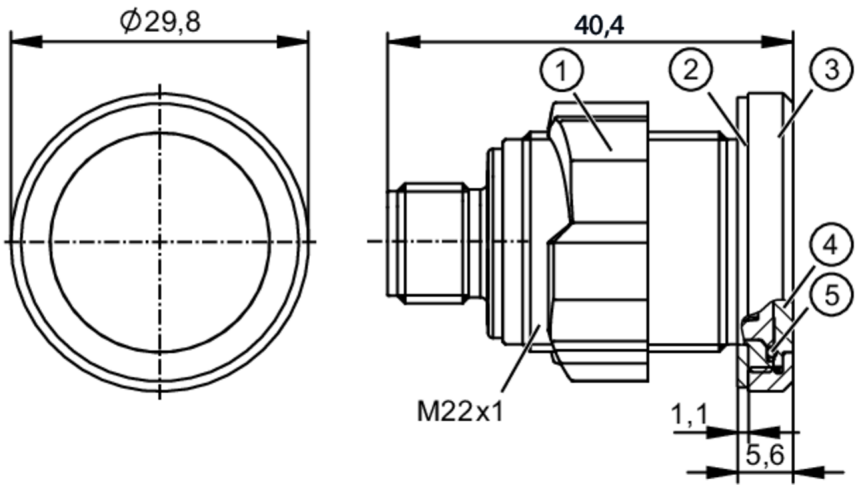




Capacitive touch sensor

KTEEFOEMMFRKG/US/IO

FDA compliance only in conjunction with the FDA-compliant E12840 seal



- 1 nut (included in packaging)
- 2 Sealing (fitted)
- 3,4,5 symbol disc + Sealing (optionally mounted)



Product characteristics	
Electrical design	PNP/NPN; (parameterisable)
Output function	normally open / normally closed; (parameterisable)
Communication interface	IO-Link
Housing	threaded type
Dimensions [mm]	M22 x 1 / L = 40.4
Application	
Operating principle	dynamic; static; bistable; combination; (parameterisable)
Electrical data	
Operating voltage [V]	8...32 DC
Protection class	III
Reverse polarity protection	yes
Current consumption	< 7,2 mA; (LED off: Ub = 24V)
	< 125 mA; (LED white, max. brightness: Ub = 8V)
	< 79 mA; (LED white, max. brightness: Ub = 12V)
	< 43 mA; (LED white, max. brightness: Ub = 24V)
	< 35 mA; (LED white, max. brightness : Ub = 32V)
Inputs	
Total number of inputs	2
Switching level high [V]	< 4.8; (at 24V safely off : Voltage <= Ub*0,2)
Switching level low [V]	> 19.2; (at 24V safely on : Voltage >= Ub*0,8)
Inputs	according to the standard IEC 61131-2 (Typ 3)
Outputs	
Electrical design	PNP/NPN; (parameterisable)
Output function	normally open / normally closed; (parameterisable)



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Max. voltage drop switching output DC	[V]	1.5
Permanent current rating of switching output DC	[mA]	200
Short-circuit protection		yes
Overload protection		yes

Response times

Response time	[ms]	64
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Software / programming

Parameter setting options	normally open / normally closed; PnP/nPn; static; dynamic; bistable; combination; Switch-on and switch-off delay; brightness; Sensitivität; Operating conditions
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Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1.3	
Profiles	Function class	Designation
	0x0002	Fixed Switching Sensor
	0x4000	Identification and Diagnosis
	0x8101	Locator
	0x8102	ProductURI
	0x800C	Sensor Control
Min. process cycle time	[ms]	13.2

Operating conditions

Ambient temperature	[°C]	-30...65
Protection	IP 65; IP 67; IP 69K; (on the front)	

Tests / approvals

EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m / 3 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	IEC 61000-6-3, EN 55011	(Class B)
	IEC 61000-4-5 Surge	1 kV (L+ to L- , 42 Ω, 0,5 μF) / 0,5 kV (all cables to L- , 42 Ω, 0,5 μF)
Vibration resistance	EN 60068-2-6 Fc	20 g (10...3000 Hz) / 50 sweep cycles, 1 octave per minute, in 3 axes
Shock resistance	EN 60068-2-27 Ea	50 g 11 ms half-sine; 20 shocks each in every direction of the 3 coordinate axes
Continuous shock resistance	EN 60068-2-29 Eb	40 g 6 ms half-sine; 8000 shocks each in every direction of the 3 coordinate axes
MTTF	[years]	218

Mechanical data

Weight	[g]	58.1
Housing	threaded type	
Dimensions	[mm]	M22 x 1 / L = 40.4
Thread designation	M22 x 1	
Materials	housing: stainless steel; lock nut: PBT	

KTE301



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Displays / operating elements

Display	operation	LED, RGB configurable
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Accessories

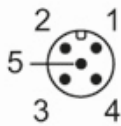
Items supplied	lock nuts: 1
Accessory required	symbol disc

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

