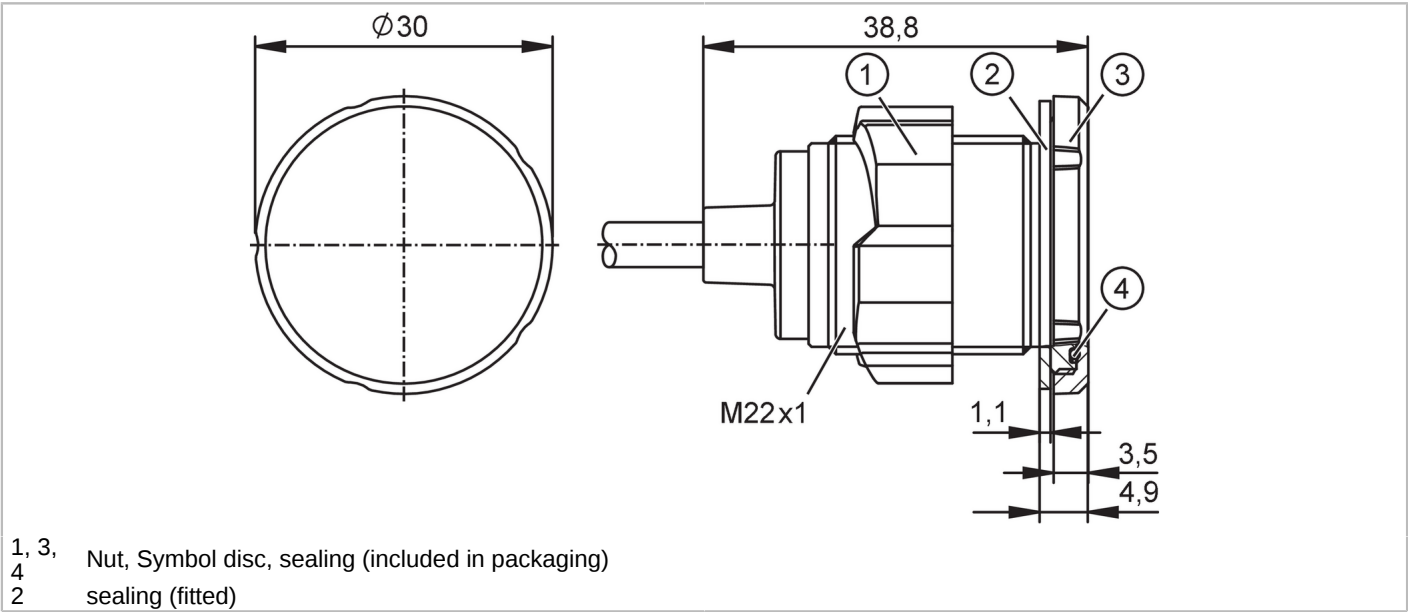


KTE110



Capacitive touch sensor

KTEEFOKMMFRKG/2M/IO



- 1, 3, 4 Nut, Symbol disc, sealing (included in packaging)
2 sealing (fitted)



Product characteristics	
Electrical design	PNP/NPN; (configurable)
Output function	normally open / closed; (configurable)
Communication interface	IO-Link
Housing	Threaded type
Dimensions [mm]	M22 x 1 / L = 38.8
Application	
Principle of operation	static; (Factory setting, configurable)
UV resistant	yes
Electrical data	
Operating voltage [V]	8...32 DC
Protection class	III
Reverse polarity protection	yes
Current consumption	< 7,2 mA; (LED off: Ub = 24 V)
	< 125 mA; (LED white, max. brightness: Ub = 8 V)
	< 79 mA; (LED white, max. brightness: Ub = 12 V)
	< 43 mA; (LED white, max. brightness: Ub = 24 V)
	< 35 mA; (LED white, max. brightness : Ub = 32 V)
Inputs	
Total number of inputs	2
Switching level high [V]	> 19.2; (at 24 V safely on : Voltage >= Ub*0,8)
Switching level low [V]	< 4.8; (at 24V safely off : Voltage <= Ub*0,2)
Inputs	according to the standard IEC 61131-2 (Typ 3)
Outputs	
Electrical design	PNP/NPN; (configurable)
Output function	normally open / closed; (configurable)

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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

Reaction times

Response time	[ms]	64
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Software / programming

Parameter setting options	normally open / closed; PNP/NPN; static; dynamic; Bistable; combination; Switch-on and switch-off delay; brightness; sensitivity; Operating conditions
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Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1.3	
Profiles	Smart Sensor - SSP 1.1	Fixed Switching Sensor
	Common - I&D	Identification and Diagnosis
	Extension	Sensor Control Wide
	Function	Locator
	Function	ProductURI
Min. process cycle time	[ms]	13.2
Supported DeviceIDs	Type of operation	DeviceID
	default	1917

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 per frequency; 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

Mechanical data

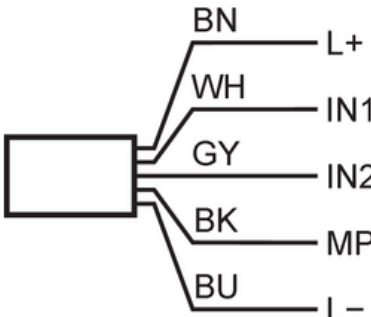
Weight	[g]	108
Housing	Threaded type	
Dimensions	[mm]	M22 x 1 / L = 38.8
Thread designation	M22 x 1	
Material	housing: PA; lock nut: PBT; Symbol disc: PA; Gasket: NR	

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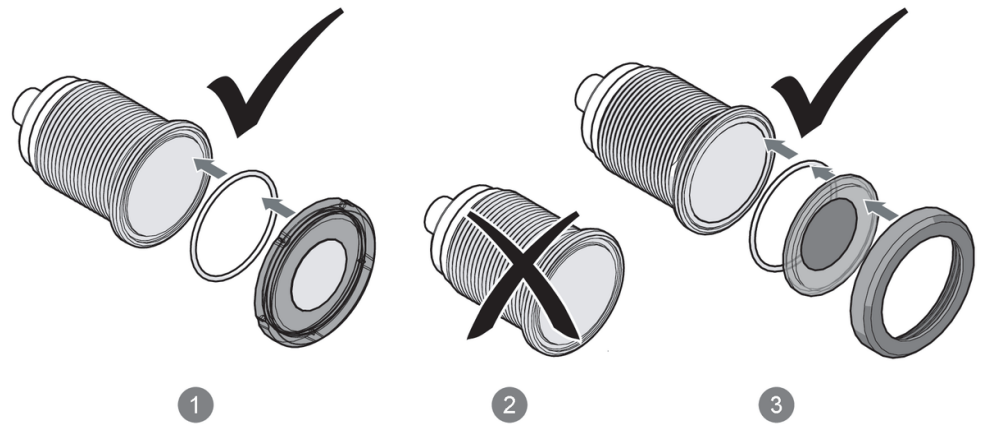
Displays / operating elements																						
Display	Switching status	LED, red																				
	input signal	LED, green																				
Accessories																						
Items supplied	lock nuts: 1 x M22																					
	transparent symbol disc: 1																					
	symbol sticker: 1																					
	Gasket: 1																					
	O-ring: 1																					
Accessories (optional)	Symbol disc																					
Remarks																						
Pack quantity	1 pcs.																					
Electrical connection																						
Cable: 2 m, PUR, Ø 4.9 mm; 5 x 0.34 mm²																						
Connection																						
 <table><tr><td>BN :</td><td>brown</td></tr><tr><td>WH :</td><td>white</td></tr><tr><td>GY :</td><td>grey</td></tr><tr><td>BK:</td><td>black</td></tr><tr><td>BU:</td><td>blue</td></tr></table><table><tr><td>BN</td><td>L+</td></tr><tr><td>WH</td><td>IN1</td></tr><tr><td>GY</td><td>IN2</td></tr><tr><td>BK</td><td>MP</td></tr><tr><td>BU</td><td>L-</td></tr></table> DO (NO/NC), IO-Link MP: multifunctional input; DO: digital output; NO: normally open; NC: normally closed			BN :	brown	WH :	white	GY :	grey	BK:	black	BU:	blue	BN	L+	WH	IN1	GY	IN2	BK	MP	BU	L-
BN :	brown																					
WH :	white																					
GY :	grey																					
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GY	IN2																					
BK	MP																					
BU	L-																					

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Diagrams and graphs

application note relevant for the function



function
only
ensured
with
symbol
disc
(can
be
ordered
separately)

1. function ensured with plastic disc
2. function not ensured without disc
3. function ensured with stainless steel disc