Show your colours! Multi-colour touch sensors with IO-Link
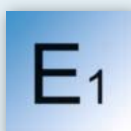
Touch sensors

Ergonomic working by softly touching the sensor

Start-up delay prevents unintentional switching

Adjustable brightness and sensitivity in wet environments or when operators wear gloves

Plant condition indicated via RGB LEDs

Various setting options such as colour, NO/NC or triggering via IO-Link

Versatile sensor for all applications

The new multi-colour touch sensors from ifm allow flexible adaptation to your application. Where many different sensors were required before, one individually adjustable sensor is sufficient today. The NO/NC function or the colours for different operating states can be set within seconds. In addition, dynamic, static or bistable switching of the sensor can be selected.

Adaptable to the environment

The adjustable sensitivity allows use in very wet environments or actuation with gloves. The implemented delay time prevents unintentional switching of a sensor. All settings remain stored even if the sensor is used without IO-Link. The sensor also counts the switching cycles for demand-oriented maintenance of the machine.

Type	Total length / thread [mm]	Connection	Protection	Ambient temperature [°C]	Housing material	Order no.
Multi-colour touch sensor · IO-Link						
	39 M22 x 1.5	2 m, PUR cable	IP 65 / IP 67 front: IP 69K	-40...85	plastic PA	**KT6100**
	39 M22 x 1.5	0.3 m PUR cable / M12 connector	IP 65, IP 67 front: IP 69K	-40...85	plastic PA	**KT6101**
	39 M22 x 1.5	2 m, PUR cable	IP 65, IP 67 front: IP 69K	-40...85	stainless steel 1.4305 (303 S 22)	**KT6300**
	39 M22 x 1.5	0.3 m PUR cable / M12 connector	IP 65, IP 67 front: IP 69K	-40...85	stainless steel 1.4305 (303 S 22)	**KT6301**

Accessories

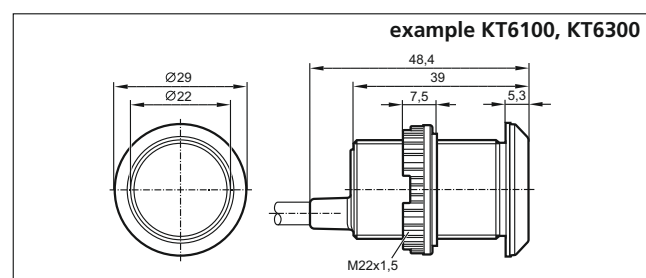| Type	Description	Order no.
Touch sensor		
	Symbol disc, transparent, 2 pcs	**E12386**
	Symbol disc, lettering: START, 2 pcs	**E12377**
	Symbol disc, symbol: Start / Stop, 2 pcs	**E12468**
	Symbol disc, lettering: STOP, 2 pcs	**E12378**
	Symbol disc, symbol: Up / Down, 2 pcs	**E12469**
	Symbol disc, symbol: ON, 2 pcs	**E12379**
	Symbol disc, symbol: OFF, 2 pcs	**E12380**
IO-Link		
	IO-Link master with PROFINET interface	**AL1100**
	IO-Link master with EtherNet/IP interface	**AL1120**
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 Kbits/s)	**E30390**
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	**QA0011**

Further technical data		
Operating voltage	[V DC]	24, (10...30)
Current consumption	[mA]	30
Current rating	[mA]	200
Short-circuit protection		•
Reverse polarity protection / overload protection		• / •
Illumination		circular on the upper side
LED states		can be configured
Communication via IO-Link		illumination colour, illumination intensity, switching characteristics, output function, electrical design, sensitivity

Insertable symbol discs

Different symbol discs can be inserted into the front to give the operator an easy explanation of the function of the touch sensors.

Dimensions

example KT6100, KT6300

Wiring diagram

KT6100, KT6300

KT6101, KT6301

ifm – close to you!