

# Safety relays

## SIRIUS 3TK28 Safety Relays

With special functions

### Selection and ordering data

Type	Standstill monitors 3TK2810-0	Speed monitors 3TK2810-1
<b>Sensors</b>		
• Inputs	3	4
• Electronic	--	3
• With contacts	--	1
• Without sensors (measuring inputs)	3	--
• Magnetically operated switch (Reed contacts)	--	--
<b>Safety mats</b>	--	--
<b>Start</b>		
• Auto	✓	✓
• Monitored	--	✓
<b>Cascading input 24 V DC</b>	--	--
<b>Key-operated switch</b>	--	--
<b>Enabling circuit, floating</b>		
• Stop category 0	3 NO + 1 NC	2
• Stop category 1	--	--
<b>Enabling circuit, electronic</b>		
• Stop category 0	--	--
• Stop category 1	--	--

✓ Available

-- Not available

Type	Standstill monitors 3TK2810-0	Speed monitors 3TK2810-1
<b>Signaling outputs</b>		
• Floating	1 CO	--
• Electronic	2	2
<b>Standards</b>	IEC 60204-1, EN ISO 12100, EN ISO 13849-1, IEC 61508	IEC 60947-5-1, EN ISO 13849-1, IEC 60204-1, IEC 61508
<b>Test certificates</b>	TÜV, UL, CSA	TÜV, UL, CSA
<b>SIL level max. according to IEC 61508</b>	3	3
<b>Performance level PL according to EN ISO 13849-1</b>	e	e
<b>Probability of a dangerous failure per hour (PFH<sub>d</sub>)</b>	1.5 x 10 <sup>-8</sup> 1/h	3.38 x 10 <sup>-9</sup> 1/h
<b>Rated control supply voltage</b>		
• 24 V DC	✓	✓
• 230 V AC	✓	--
• 400 V AC	✓	--
• 120 ... 240 V AC/DC	--	✓